

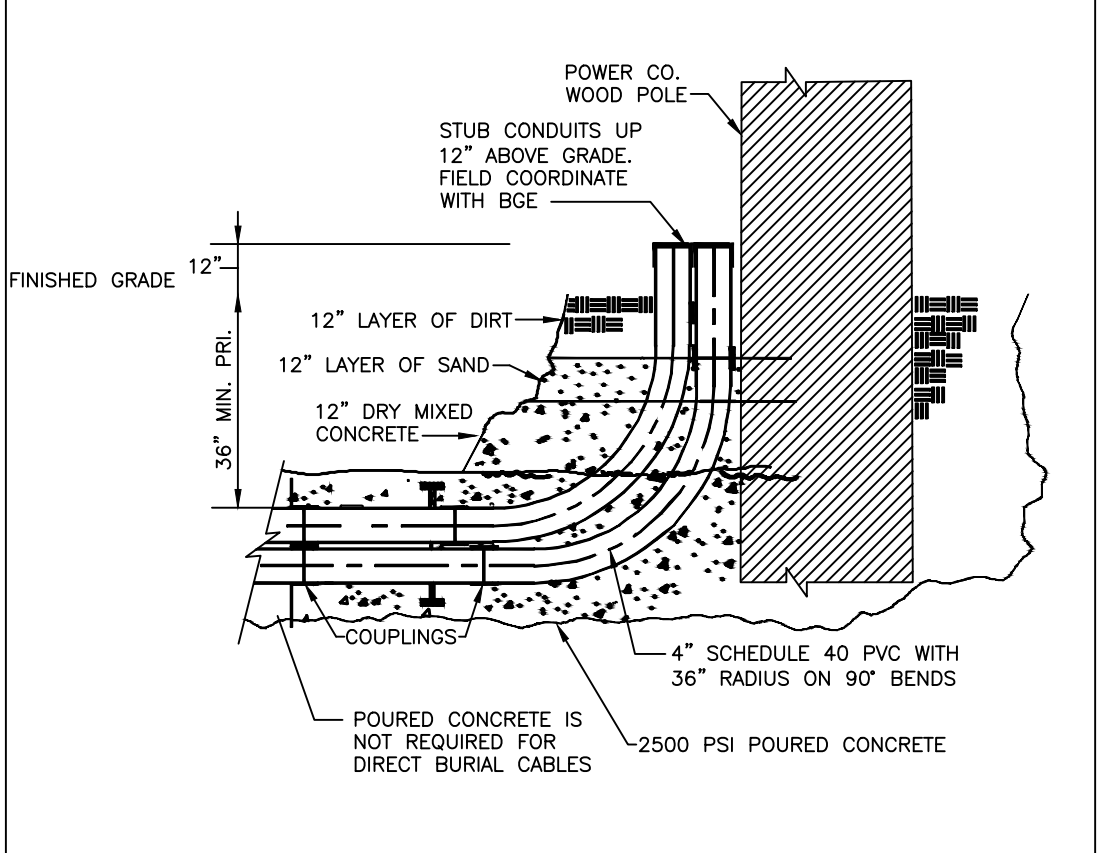
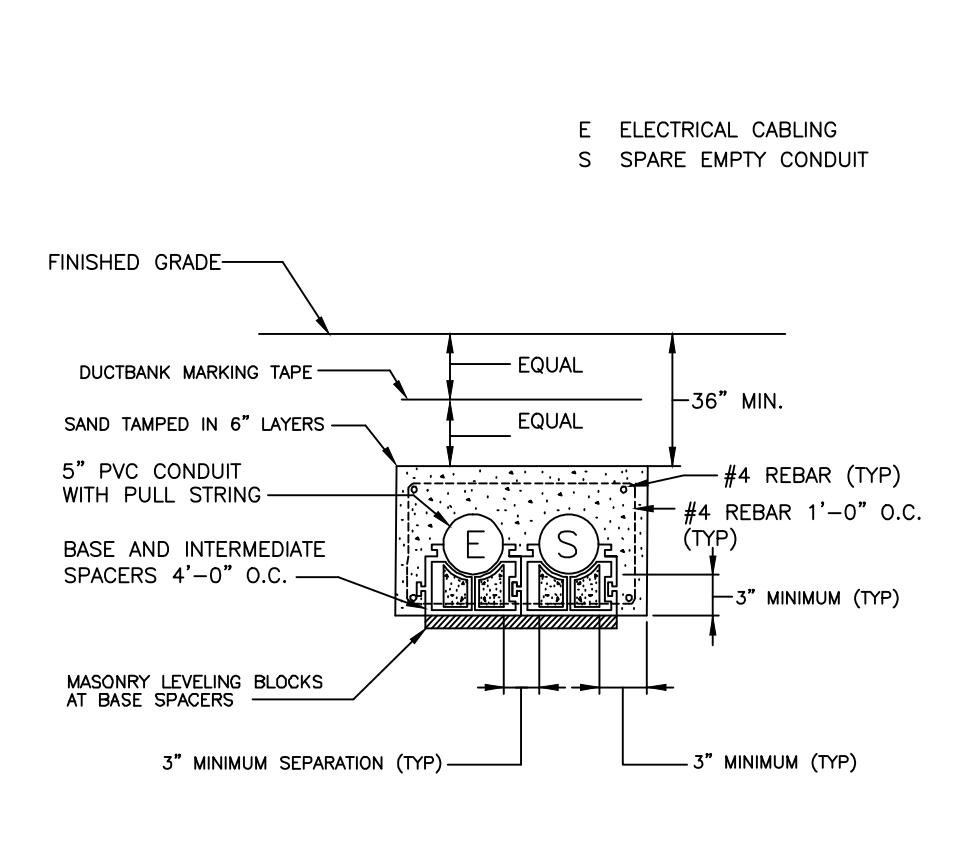
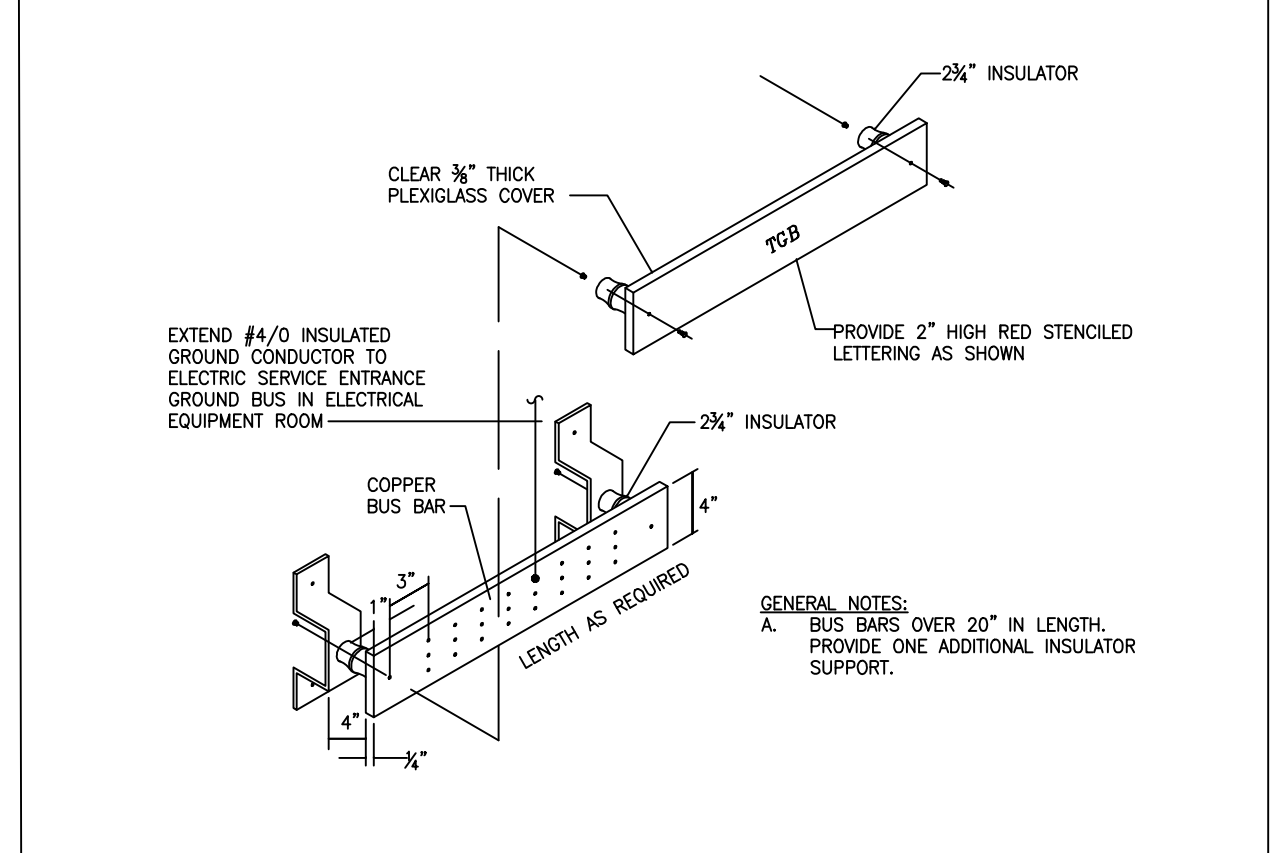
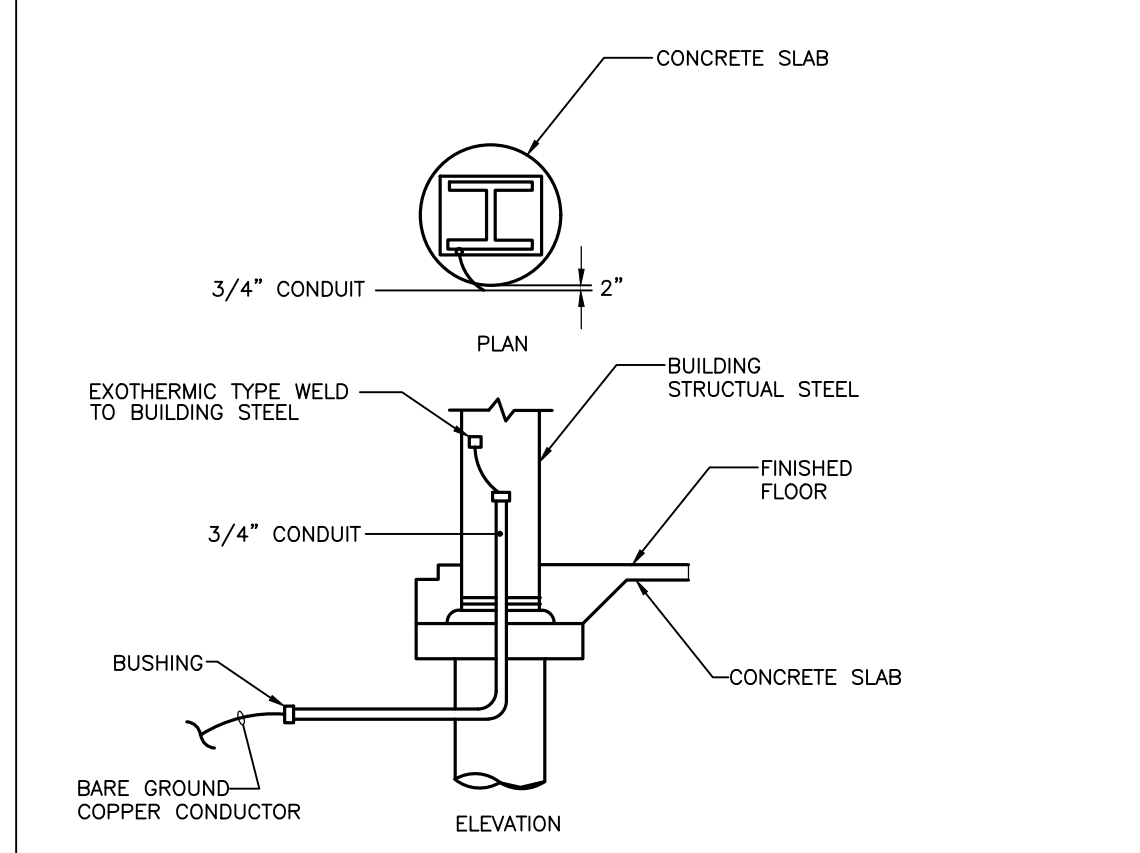
A
E0.2
TYPICAL DIRECT BURIAL CABLE DETAIL
NOT TO SCALE

B
E0.2
PARTIAL SCHEMATIC GROUNDING DIAGRAM
SCALE: NONE

C
E0.2
TYPICAL DIRECT BURIAL CABLE DETAIL
NOT TO SCALE

D
E0.2
DETAIL 12"x12" HANDBOX
NO SCALE

E
E0.2
GROUND ROD DETAIL
NO SCALE

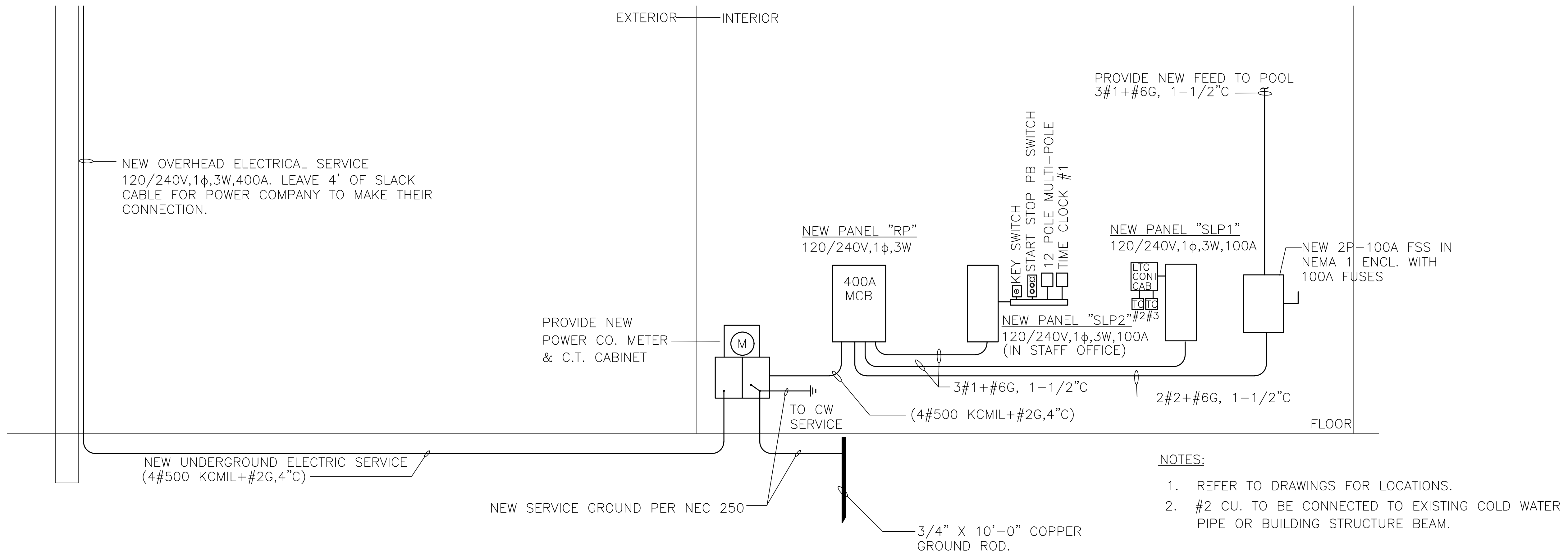


F
E0.2
BONDING TO BUILDING STEEL DETAIL
NOT TO SCALE

G
E0.2
GROUNDING BUS BAR
NOT TO SCALE

H
E0.2
2-WAY UTILITY CO PRIMARY DUCTBANK
NOT TO SCALE

J
E0.2
CONDUIT TRANSITION UP AT POWER POLE
NOT TO SCALE



I
E0.2
TYPICAL ELECTRICAL POWER RISER
NO SCALE

CLIENT:
PHILADELPHIA PARKS & RECREATION

Rebuild PHILADELPHIA

PROJECT NAME & ADDRESS:
ZIEHLER PLAYGROUND & RECREATION CENTER
200-64 E. OLNEY AVENUE
PHILADELPHIA, PA 19120

PROJECT NUMBER:
16640E-01-02

PRIME CONSULTANT (LANDSCAPE ARCHITECTURE):
SALT DESIGN STUDIO
LANDSCAPE ARCHITECTURE
PLANNING & URBAN DESIGN
161 LEVERINGTON AVE, SUITE 1005
PHILADELPHIA, PA 19127
www.saltdesignstudio.com

CIVIL ENGINEERING:
MELIORA DESIGN
259 MORGAN STREET
PHILADELPHIA, PA 19140
www.melioradesign.com

ARCHITECTURE:
IAN SMITH DESIGN GROUP
1417 N. 2ND STREET, #3
PHILADELPHIA, PA 19122
www.is-dg.com

LIGHTING DESIGN:
MILLER DESIGN GROUP
www.millerdesigngrouplighting.com

MEP DESIGN:
MARK ULTRICK ENGINEERS, INC.
622 COOPER STREET, #200
CAMDEN, NJ 08102
www.markultrick.com

STRUCTURAL ENGINEERING:
D'HUY ENGINEERING, INC.
1 EAST BROAD STREET, SUITE 310
BETHLEHEM, PA 18018
www.dhuy.com

DRAWING PHASE:
100% CONSTRUCTION DOCUMENTATION

PROFESSIONAL SEAL:
MARK BRIAN WASHINGTON
REGISTERED PROFESSIONAL ENGINEER
NO. 100000000
PENNSYLVANIA

SHEET TITLE:
SITE PLAN-DETAILS AND POWER RISER DIAGRAM

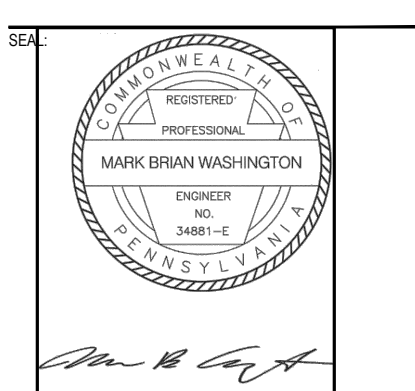
REV	DATE	DESCRIPTION

SCALE:
AS NOTED

DATE: 06/24/2022 DRAWN BY: WOJ
CHECKED BY: MBW

SHEET NUMBER:
E-0.2

SALT DESIGN STUDIO FILE NO.:
2003



SHEET TITLE:
PROPOSED FLOOR PLAN EQUIPMENT CONNECTIONS - POWER NEW WORK

REV	DATE	DESCRIPTION

SCALE: AS NOTED
 DATE: 06/24/2022 DRAWN BY: WOJ
 SHEET NUMBER: CHECKED BY: MBW

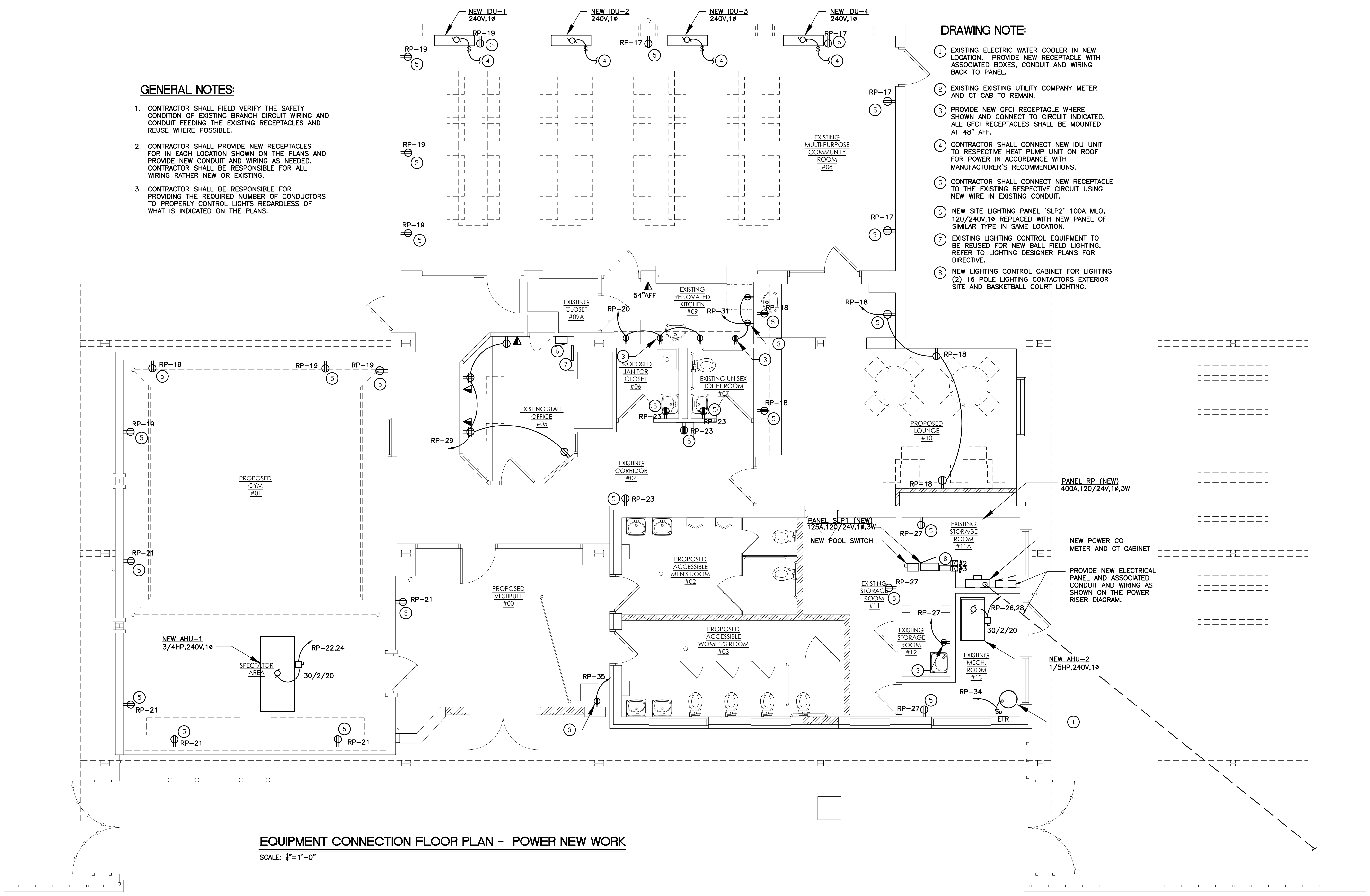
E-1.2

GENERAL NOTES:

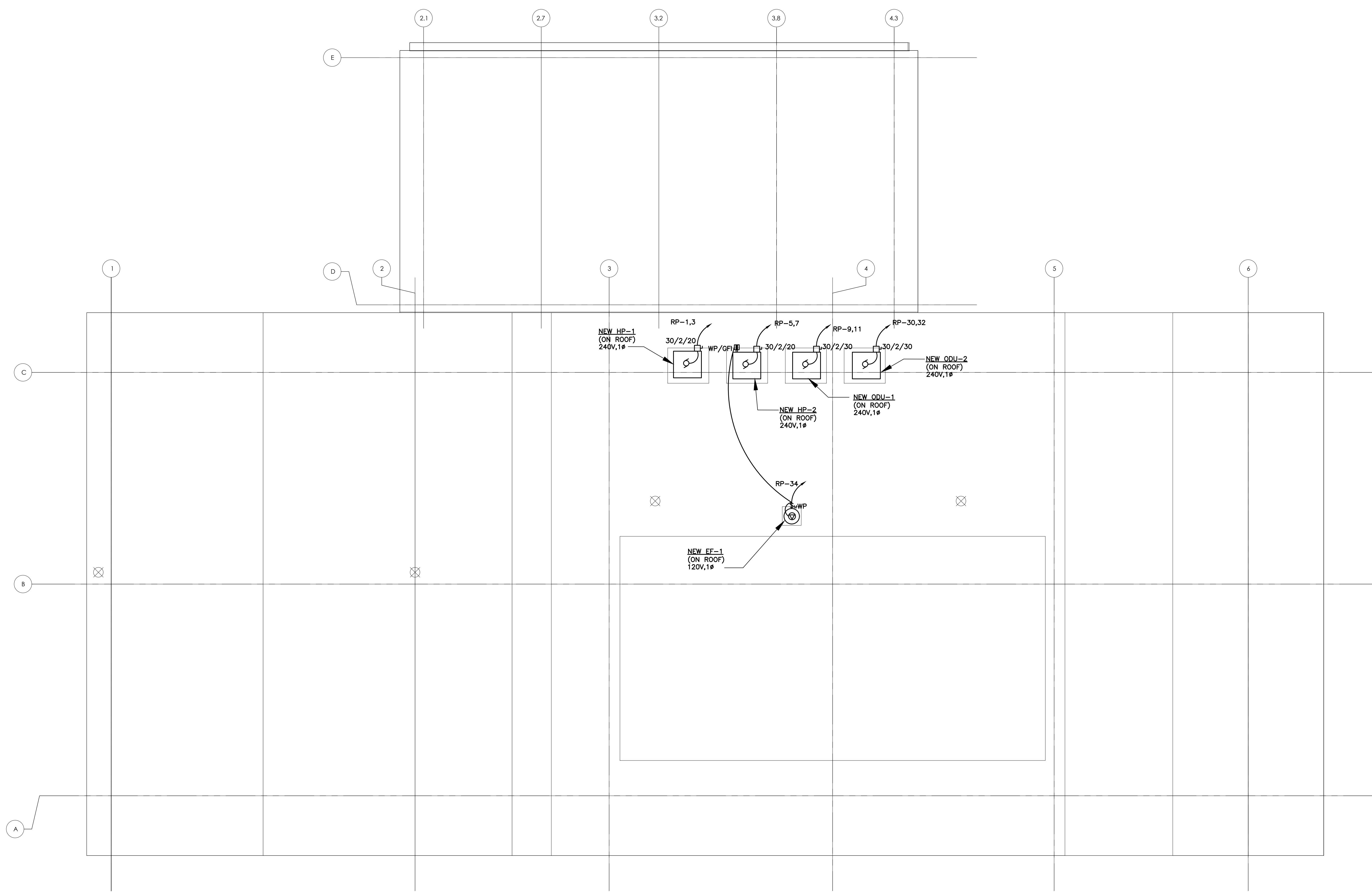
- CONTRACTOR SHALL FIELD VERIFY THE SAFETY CONDITION OF EXISTING BRANCH CIRCUIT WIRING AND CONDUIT FEEDING THE EXISTING RECEPTACLES AND REUSE WHERE POSSIBLE.
- CONTRACTOR SHALL PROVIDE NEW RECEPTACLES FOR IN EACH LOCATION SHOWN ON THE PLANS AND PROVIDE NEW CONDUIT AND WIRING AS NEEDED. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WIRING RATHER NEW OR EXISTING.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE REQUIRED NUMBER OF CONDUCTORS TO PROPERLY CONTROL LIGHTS REGARDLESS OF WHAT IS INDICATED ON THE PLANS.

DRAWING NOTE:

- EXISTING ELECTRIC WATER COOLER IN NEW LOCATION. PROVIDE NEW RECEPTACLE WITH ASSOCIATED BOXES, CONDUIT AND WIRING BACK TO PANEL.
- EXISTING EXISTING UTILITY COMPANY METER AND CT CAB TO REMAIN.
- PROVIDE NEW GFCI RECEPTACLE WHERE SHOWN AND CONNECT TO CIRCUIT INDICATED. ALL GFCI RECEPTACLES SHALL BE MOUNTED AT 48" AFF.
- CONTRACTOR SHALL CONNECT NEW IDU UNIT TO RESPECTIVE HEAT PUMP UNIT ON ROOF FOR POWER IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- CONTRACTOR SHALL CONNECT NEW RECEPTACLE TO THE EXISTING RESPECTIVE CIRCUIT USING NEW WIRE IN EXISTING CONDUIT.
- NEW SITE LIGHTING PANEL 'SLP2' 100A MLO, 120/240V, 1Ø REPLACED WITH NEW PANEL OF SIMILAR TYPE IN SAME LOCATION.
- EXISTING LIGHTING CONTROL EQUIPMENT TO BE REUSED FOR NEW BALL FIELD LIGHTING. REFER TO LIGHTING DESIGNER PLANS FOR DIRECTIVE.
- NEW LIGHTING CONTROL CABINET FOR LIGHTING (2) 16 POLE LIGHTING CONTACTORS EXTERIOR SITE AND BASKETBALL COURT LIGHTING.



EQUIPMENT CONNECTION FLOOR PLAN - POWER NEW WORK
 SCALE: 1/4"=1'-0"



PROPOSED ROOF PLAN - ELECTRICAL NEW WORK
 SCALE: 1/4" = 1'-0"



CLIENT:
 PHILADELPHIA PARKS & RECREATION
 Rebuild PHILADELPHIA
 PROJECT NAME & ADDRESS:
ZIEHLER PLAYGROUND & RECREATION CENTER
 200-64 E. OLNEY AVENUE
 PHILADELPHIA, PA 19120

PROJECT NUMBER:
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PRIME CONSULTANT / LANDSCAPE ARCHITECTURE:
SALT
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 LANDSCAPE ARCHITECTURE
 PLANNING & URBAN DESIGN

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 PHILADELPHIA, PA 19127
 www.saltdesignstudio.com

CIVIL ENGINEERING:
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 www.melioradesign.com

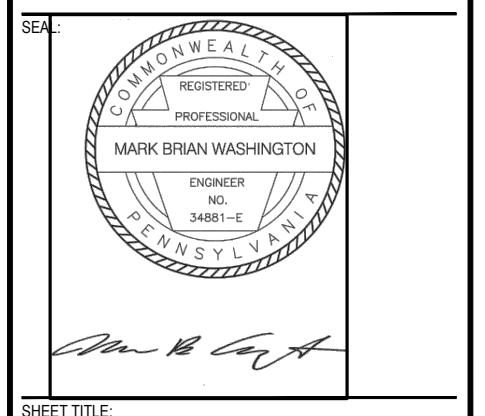
ARCHITECTURE:
IAN SMITH DESIGN GROUP
 1417 N. 2ND STREET, #3
 PHILADELPHIA, PA 19122
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LIGHTING DESIGN:
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DRAWING PHASE:
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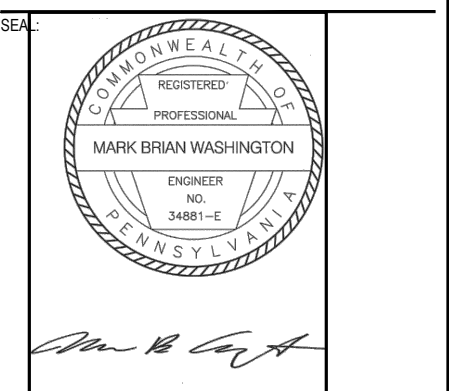
SHEET TITLE:
PROPOSED ROOF PLAN - ELECTRICAL NEW WORK

REV	DATE	DESCRIPTION

SCALE:
 AS NOTED
 DATE: 06/24/2022
 DRAWN BY: WQJ
 CHECKED BY: MBW

SHEET NUMBER:
E-1.3

SALT DESIGN STUDIO FILE NO.:
 2003



REV	DATE	DESCRIPTION

EXIST. PANEL RP

VOLTAGE 120 / 240
 PHASE WIRE 1, 3
 400 AMP MAIN MCB
 A.I.C.: 10k MOUNTED FLUSH

KVA CODE	CKT	SERVING	P	TRIP	QTY	AWG	KVA	PH	KVA	QTY	AWG	P	TRIP	SERVING	CKT	KVA CODE
AC	1	HP-1	2	20	2	12	1.1	A	9.0	2	2	100		EX POOL	2	P
AC	3						1.1	B	9.0						4	P
AC	5	HP-2	2	20	2	12	1.1	A	0.3	2	12	1	20	LIGHTING BLDG	6	L
AC	7						1.1	B	0.3	2	12	1	20	LIGHTING BLDG	8	L
AC	9	ODU-1	2	30	2	10	2.4	A	0.5	2	12	1	20	LIGHTING CORRIDOR	10	L
AC	11						2.4	B	0.7	2	12	1	20	LIGHTING KITCHEN	12	L
L	13	LIGHTING GYM	1	20	2	12	0.3	A	0.6	2	12	1	20	LIGHTING "WU" FIX	14	L
L	15	LIGHTING GYM	1	20	2	12	0.6	B	0.4	2	12	1	20	LIGHTING MULTI PUR	16	L
R	17	EXIST. RECEPTACLES	1	20	2	12	0.8	A	0.6	2	12	1	20	RECEPTACLES LOUNGE	18	R
R	19	EXIST. RECEPTACLES	1	20	2	12	0.8	B						RECEPTACLES KITCHEN	20	R
R	21	EXIST. RECEPTACLES	1	20	2	12	0.9	A	0.3	2	12	2	20	AHU-1	22	F
R	23	EXIST. RECEPTACLES	1	20	2	12	1.1	B	0.3						24	F
R	25	EXIST. RECEPTACLES	1	20	2	12	0.4	A	0.3	2	12	2	20	AHU-2	26	F
EQ	27	EXIST. RECEPTACLES	1	20	2	12	0.8	B	0.3						28	F
R	29	RECEPTACLES OFFICE	1	20	2	12	1.1	A	2.4	2	10	2	30	ODU-2	30	AC
R	31	RECEPT KITCHEN	1	20	2	12	0.6	B	2.4						32	AC
L	33	LIGHTING VESTIBULE	1	20	2	12	0.3	A	0.4	2	12	1	20	ROOF REC. & EF-1	34	EQ
EQ	35	WATER COOLER	1	20	2	12	1.0	B	9.5	2	2	2	100	PANEL SLP-1	36	PA
EQ	37	TVSS UNIT	2	30	2	10	0.5	A	7.5						38	PA
EQ	39						0.5	B	7.5	2	2	2	100	PANEL SLP-2	40	PA
	41	BUSSED SPACE						A	7.5						42	PA

NOTES:
 1. PROVIDE ARC-FAULT CIRCUIT INTERRUPTER TYPE CIRCUIT BREAKERS FOR ALL BRANCH CIRCUITS FEEDING RECEPTACLES IN BEDROOMS, IN ACCORDANCE WITH NEC 210.12.

CD	DESCRIPTION	CON. KVA	DEMAND	DEMAND KVA	DESIGN KVA =
AC	AIR CONDITIONING	7.0	7.0	100%	7.0
L	LIGHTING	2.0	2.0	125%	2.5
R	RECEPTACLES	3.8	2.5	50%	1.9
EQ	EQUIPMENT	0.9	2.3	65%	0.6
P	PUMPS	9.0	9.0	65%	5.9
F	FANS	0.6	0.6	70%	0.4
PA	PANEL	17.0	17.0	100%	17.0
TOTAL					35.3

DESIGN KVA = 71.0 KVA
 SPARE = 10%
 DESIGN AMPS = 326 AMP
 MOCP = 350 AMP

EXIST. PANEL SLP1

VOLTAGE 120 / 240
 PHASE WIRE 1, 3
 100 AMP MAIN LUGS
 A.I.C.: 10k MOUNTED FLUSH

KVA CODE	CKT	SERVING	P	TRIP	QTY	AWG	KVA	PH	KVA	QTY	AWG	P	TRIP	SERVING	CKT	KVA CODE
L	1	LIGHTING SIDEWALK	2	20	2	10	0.2	A	0.2	2	10	2	20	LIGHTING SIDEWALK	2	L
L	3						0.2	B	0.2						4	L
L	5	LIGHTING COURT	2	20	2	10	0.6	A	0.6	2	10	2	20	LIGHTING COURT	6	L
L	7						0.6	B	0.6						8	L
L	9	LIGHTING COURT	2	20	2	12	0.6	A	0.6	2	10	2	20	LIGHTING COURT	10	L
L	11						0.6	B	0.6						12	L
0.0	13	SPARE	1	20	0	0	0.0	A	0.0	0	0	1	20	SPARE	14	0.0
0.0	15	SPARE	1	20	0	0	2.0	B	0.0	0	0	1	20	SPARE	16	0.0
0.0	17	BUSSED SPACE					0.0	A	0.0	0	0			BUSSED SPACE	18	0.0
R	19	BUSSED SPACE	0	0	0	0	0.5	B	0.0	0	0			BUSSED SPACE	20	0.0
R	21	BUSSED SPACE	0	0	0	0	0.5	A	0.0	0	0			BUSSED SPACE	22	0.0
R	23	BUSSED SPACE	0	0	0	0	0.4	B	0.0	0	0			BUSSED SPACE	24	0.0

NOTES:
 1. PROVIDE ARC-FAULT CIRCUIT INTERRUPTER TYPE CIRCUIT BREAKERS FOR ALL BRANCH CIRCUITS FEEDING RECEPTACLES IN BEDROOMS, IN ACCORDANCE WITH NEC 210.12.

CD	DESCRIPTION	CON. KVA	DEMAND	DEMAND KVA	DESIGN KVA =
L	LIGHTING	2.8	2.8	125%	3.5
EQ	EQUIPMENT	0.0	5.0	65%	0.0
R	RECEPTACLES	1.5	1.4	50%	0.8
0	0	0.0	0.0	0%	0.0
0	0	0.0	0.0	0%	0.0
0	0	0.0	0.0	0%	0.0
0	0	0.0	0.0	0%	0.0
TOTAL					4.3

DESIGN KVA = 14.9 KVA
 SPARE = 10%
 DESIGN AMPS = 68 AMP
 MOCP = 100 AMP

EXIST. PANEL SLP2

VOLTAGE 120 / 240
 PHASE WIRE 1, 3
 100 AMP MAIN LUGS
 A.I.C.: 10k MOUNTED FLUSH

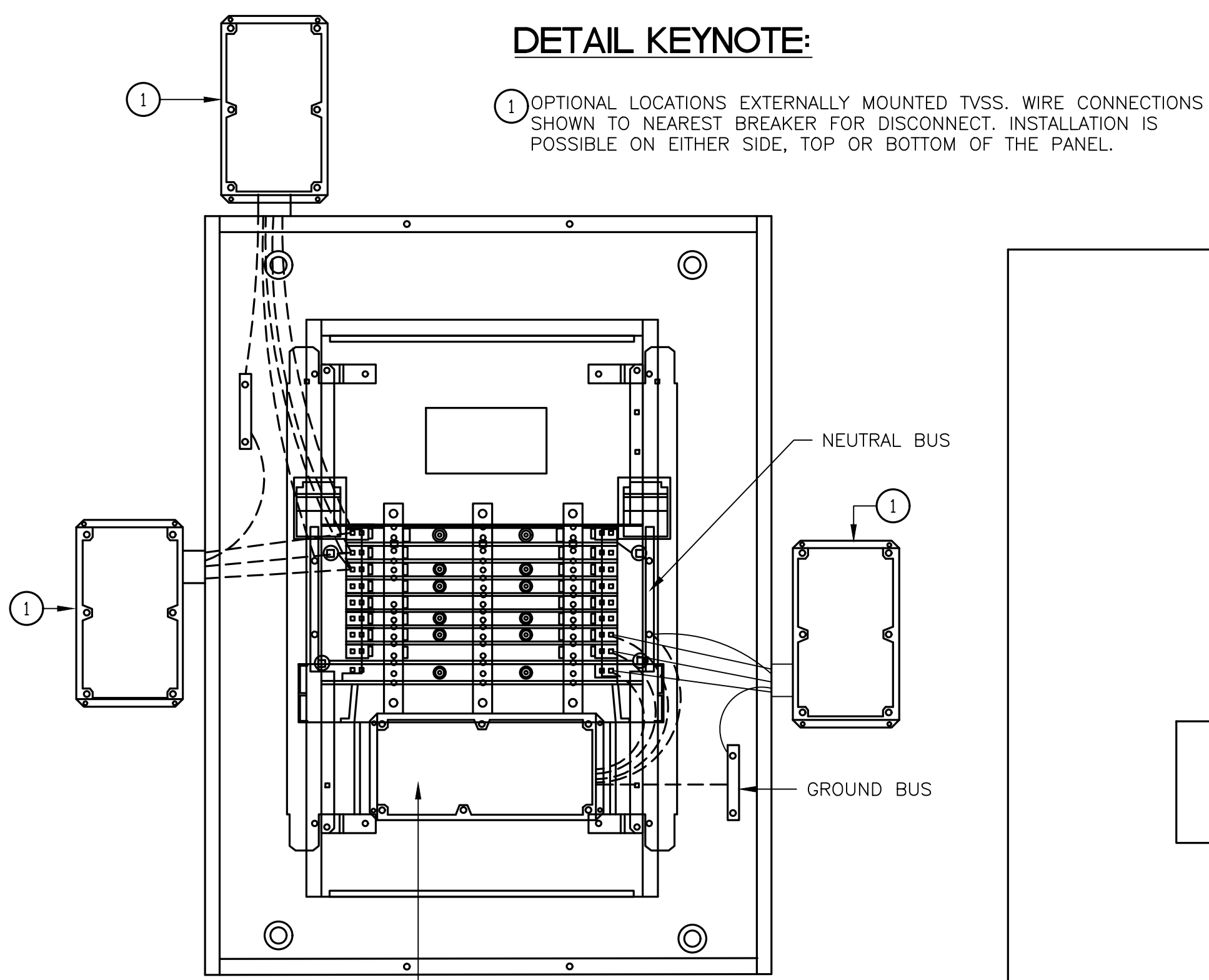
KVA CODE	CKT	SERVING	P	TRIP	QTY	AWG	KVA	PH	KVA	QTY	AWG	P	TRIP	SERVING	CKT	KVA CODE
L	1	LIGHTING - FIELD	2	20	2	10	1.1	A	1.1	2	10	2	20	LIGHTING - FIELD	2	L
L	3						1.1	B	1.0						4	L
L	5	LIGHTING - FIELD	2	20	2	10	0.8	A	0.8	2	10	2	20	LIGHTING - FIELD	6	L
L	7						0.8	B	0.8						8	L
L	9	LIGHTING - FIELD	2	20	2	10	1.1	A	1.1	2	12	2	20	LIGHTING - FIELD	10	L
L	11						1.1	B	1.1						12	L
L	13	LIGHTING - FIELD	2	20	2	10	1.1	A	1.1	2	10	2	20	LIGHTING - FIELD	14	L
L	15						1.1	B	1.1						16	L
0.0	17	SPARE					0.0	A	0.0	0	0			SPARE	18	0.0
0.0	19	SPARE	0	0	0	0	0.5	B	0.0	0	0			SPARE	20	0.0
0.0	21	BUSSED SPACE	0	0	0	0	0.5	A	0.0	0	0			BUSSED SPACE	22	0.0
0.0	23	BUSSED SPACE	0	0	0	0	0.4	B	0.0	0	0			BUSSED SPACE	24	0.0

NOTES:
 1. PROVIDE ARC-FAULT CIRCUIT INTERRUPTER TYPE CIRCUIT BREAKERS FOR ALL BRANCH CIRCUITS FEEDING RECEPTACLES IN BEDROOMS, IN ACCORDANCE WITH NEC 210.12.

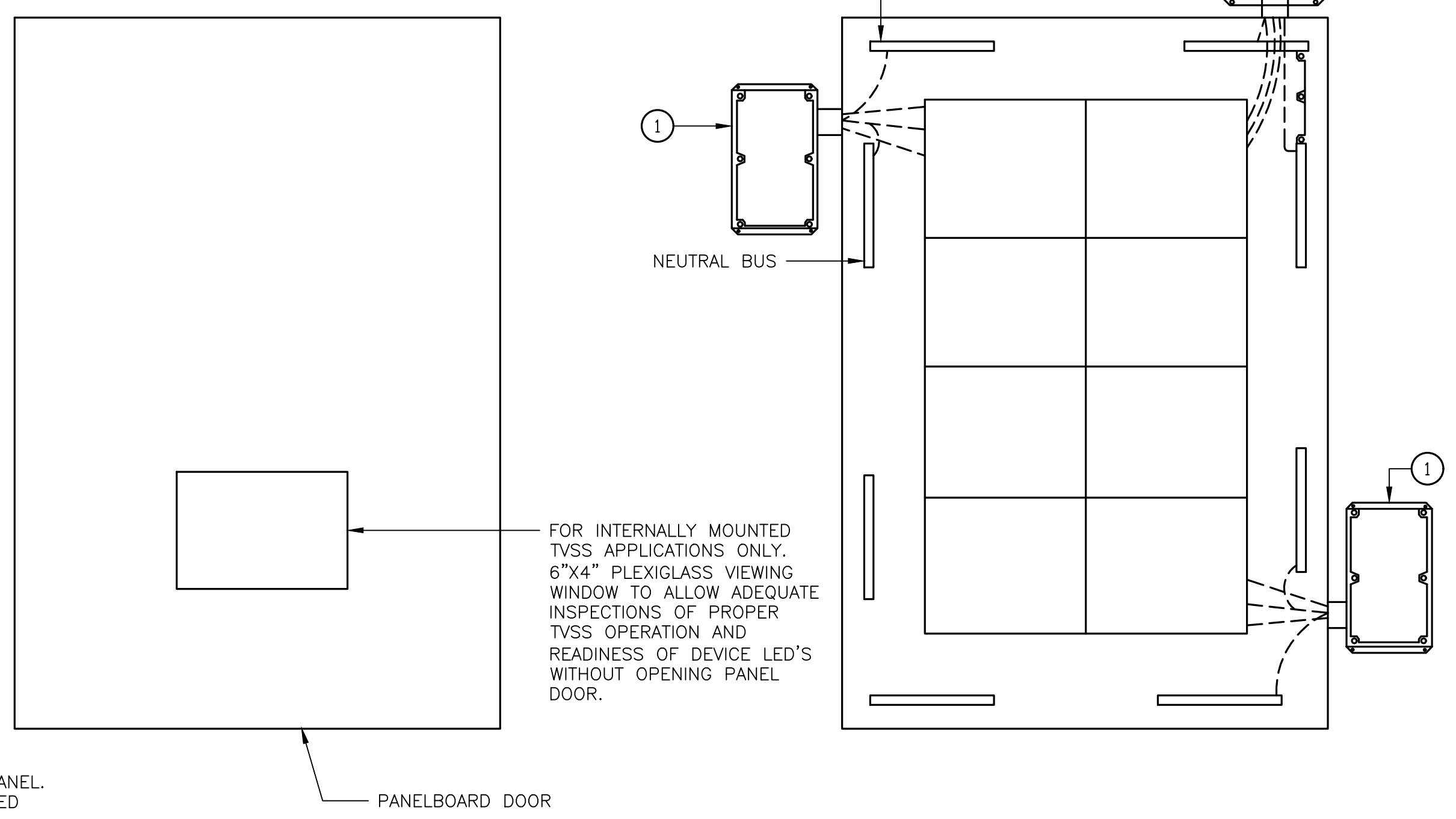
CD	DESCRIPTION	CON. KVA	DEMAND	DEMAND KVA	DESIGN KVA =
L	LIGHTING	8.2	8.1	125%	10.3
0	0	1.5	4.4	0%	0.0
0	0	1.5	4.4	0%	0.0
0	0	1.5	4.4	0%	0.0
0	0	1.5	1.5	0%	0.0
0	0	1.5	4.4	0%	0.0
0	0	1.5	4.4	0%	0.0
TOTAL					10.3

DESIGN KVA = 20.5 KVA
 SPARE = 10%
 DESIGN AMPS = 94 AMP
 MOCP = 100 AMP

DETAIL KEYNOTE:



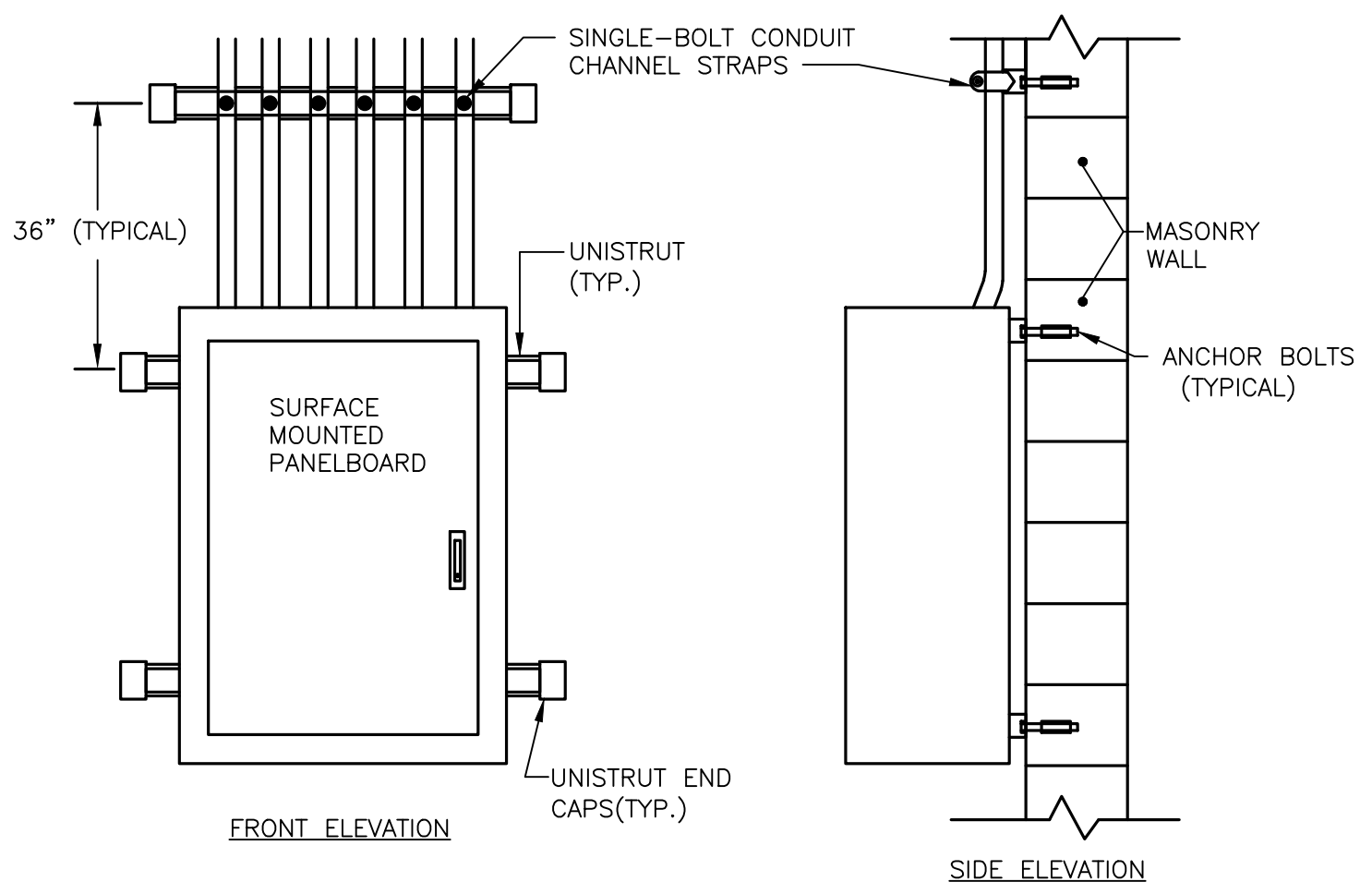
FOR INTERNALLY MOUNTED TVSS APPLICATIONS ONLY. 6"x4" PLEXIGLASS VIEWING WINDOW TO ALLOW ADEQUATE INSPECTIONS OF PROPER TVSS OPERATION AND READINESS OF DEVICE LED'S WITHOUT OPENING PANEL DOOR.



A E-3.1 TVSS-PANELBOARD INSTALLATION DETAIL
 NOT TO SCALE

GENERAL NOTES:

- PROVIDE A MULTIPOLE, 30 AMP CIRCUIT BREAKER AS A DEDICATED DISCONNECT FOR SUPPRESSOR, IN PROPER COORDINATION WITH VOLTAGE CONFIGURATION OF PROTECTED EQUIPMENT.
- INSTALL DEVICES FOR DISTRIBUTION PANELBOARDS, BRANCH PANELBOARDS AND ENCLOSED CIRCUIT BREAKERS WITH CONDUCTORS BETWEEN SUPPRESSOR AND POINTS OF ATTACHMENT AS SHORT AND STRAIGHT AS POSSIBLE. DO NOT EXCEED MANUFACTURER'S RECOMMENDED LEAD LENGTH. DO NOT BOND NEUTRAL AND GROUND.
- THE LOCATION OF THE TVSS SHALL BE CHOSEN TO MINIMIZE THE LEAD LENGTHS BETWEEN THE TVSS AND THE CIRCUIT BREAKER TO WHICH IT IS CONNECTED. TVSS DEVICE LEADS WHICH ARE MOUNTED EXTERNAL TO THE PANEL (ENCLOSED CIRCUIT BREAKERS), MUST BE ROUTED WITHIN A METAL CONDUIT WHEN NECESSARY (RIGID NIPPLE IF POSSIBLE), AND KEPT AS SHORT AND STRAIGHT AS POSSIBLE. WIRE SIZE FOR LEAD SHALL BE AS SPECIFIED BY MANUFACTURER, MINIMUM SIZE #10 AWG, MAXIMUM SIZE #4 AWG.
- SURGE PROTECTIVE DEVICES SHALL BE INSTALLED NEATLY. BIND THE PHASE, NEUTRAL, AND GROUND CONDUCTORS TIGHTLY, OVER THE ENTIRE RUN, FROM THE SUPPRESSOR TO THE PANEL (ENCLOSED CIRCUIT BREAKER), AND ALWAYS USE THE SHORTEST LENGTH OF CONNECTING CABLE POSSIBLE.
- CONNECT SURGE PROTECTOR TO THE GROUNDING SYSTEM.
- NEMA 4 RATED ENCLOSURE FOR INDOOR APPLICATIONS (WHERE FIRE SUPPRESSION SYSTEM MAY BE UTILIZED) AND NEMA 4X RATED ENCLOSURE FOR OUTDOOR APPLICATIONS.



B E-3.1 PANELBOARD MOUNTING DETAIL
 SCALE: NONE

ABBREVIATIONS

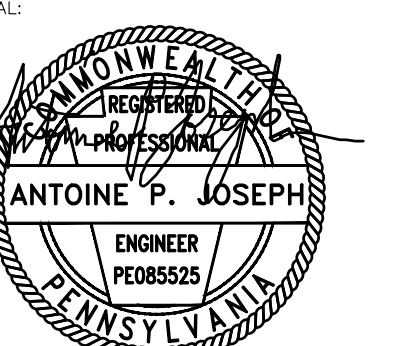
AC	AIR CONDITIONING
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AP	ACCESS PANEL
ABBREV	ABBREVIATIONS
AS	AIR SEPERATOR
BHP	BRAKE HORSEPOWER
BLDG	BUILDING
BLR	BOILER
BTUH	BRITISH THERMAL UNITS PER HOUR
CD	CEILING DIFFUSER
CFM	CUBIC FEET PER MINUTE
CI	CAST IRON
CLG	CEILING
CO	CLEANOUT
COL	COLUMN
CUH	CABINET UNIT HEATER
CH	CHILLER
CHWS	CHILLED WATER SUPPLY
CHWR	CHILLED WATER RETURN
COND	CONDENSATE
DET	DETAIL
DIA/φ	DIAMETER
DN	DOWN
DWG	DRAWING
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EC	EXPANSION COMPENSATOR
EF	EXHAUST FAN
ESP	EXTERNAL STATIC PRESSURE
EWT	ENTER WATER TEMPERATURE
ET	EXPANSION TANK
ER	EXHAUST REGISTER
FC	FLEXIBLE CONNECTION
FCU	FAN COIL UNIT
FD	FIRE DAMPER
FIL	FILTER
FLEX	FLEXIBLE
FLR	FLOOR
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FT	FEET/FOOT
FTR	FIN TUBE RADIATION
G	GAS (NATURAL)
GA	GAUGE
GAL	GALLON
GPM	GALLONS PER MINUTE
GR	GRILLE
HC	HEATING COIL
HD	HEAD
HORIZ	HORIZONTAL
HP	HORSEPOWER
HR	HOUR
HT	HEIGHT
HUM	HUMIDITY
HWS	HOT WATER SUPPLY (HEATING)
HWR	HOT WATER RETURN (HEATING)
HZ	HERTZ
ID	INSIDE DIAMETER
INSUL	INSULATION
IN/WG	INCHES WATER GAUGE
KW	KILOWATT
MAX	MAXIMUM
MBH	1000 BTU PER HOUR
MIN	MINIMUM
MOD	MOTOR OPERATED DAMPER
MVD	MANUAL VOLUME DAMPER
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OD	OUTSIDE DIAMETER
OPNG	OPENING
P-	PUMP
PD	PRESSURE DIFFERENTIAL
PH	PHASE
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAUGE
PTAC	PACKAGE TERMINAL AIR CONDITIONER
REV	REVISION
RH	RELATIVE HUMIDITY
RHC	REHEAT COIL
RL	REFRIGERANT-LIQUID
RS	REFRIGERANT - SUCTION
RPM	REVOLUTIONS PER MINUTE
SA	SUPPLY AIR
SF	SUPPLY FAN
SPEC	SPECIFICATION
SQ. FT./ φ	SQUARE FOOT
SR	SUPPLY REGISTER
T	THERMOSTAT
TEMP	TEMPERATURE
TSP	TOTAL STATIC PRESSURE
TYP	TYPICAL
UH	UNIT HEATER
VTR	VENT THROUGH ROOF
WH	WALL HEATER
W/	WITH
W/O	WITHOUT
WB	WET BULB

SINGLE LINE	DOUBLE LINE	DESCRIPTION
		SUPPLY AIR FLOW
		RETURN/EXHAUST AIR FLOW
		SUPPLY/OUTSIDE AIR DUCT
		RETURN/EXHAUST AIR DUCT
		RECTANGULAR SUPPLY DUCT ELBOW (UP & DN.)
		RECTANGULAR RETURN/EXHAUST DUCT (UP & DN.)
		DENOTES RECTANGULAR DUCT SIZE IN INCHES (DIMENSIONS INSIDE CLEAR)
		SUPPLY AIR TERMINALS CEILING OR DUCT MOUNTED (SQUARE, RECTANGULAR, CIRCULAR & SIDEWALL W/AIR VOLUME EXTRACTOR) CFM, SIZE & TYPE AS NOTED
		EXHAUST/RETURN AIR TERMINAL CFM, SIZE & TYPE AS NOTED
		DUCT RISING IN DIRECTION OF ARROW
		TRANSITION DUCT CONCENTRIC & ECCENTRIC
		FLEXIBLE CONNECTION
		MOTOR OPERATED DAMPER (OPPOSED BLADE)
		MOTOR OPERATED DAMPER (PARALLEL BLADE)
		SQUARE VANED ELBOW
		RISER DESIGNATION
		POINT OF CONNECTION TO EXISTING
		POINT OF DISCONNECTION
		WALL MOUNTED AIR CONDITIONER
		DOOR UNDERCUT

SINGLE LINE	DESCRIPTION
	SHUT-OFF VALVE - (SEE SPEC'S FOR TYPE)
	BALANCING VALVE - (SEE SPEC'S FOR TYPE)
	CHECK VALVE - (SEE SPEC'S FOR TYPE)
	PRESSURE REDUCING VALVE
	GAS COCK
	PITCH DOWN IN DIRECTION OF ARROW
	RISER UP
	RISER DOWN
	VALVE IN RISER
	VALVE IN DROP
	ELBOW - 90
	ELBOW - 45
	LATERAL CONNECTION
	TEE CONNECTION
	CROSS CONNECTION
	BASE ELBOW
	CONCENTRIC REDUCER
	ECCENTRIC REDUCER
	DIRECTION OF FLOW
	PIPE ANCHOR
	PIPE GUIDE
	3-WAY CONTROL VALVE
	PRESSURE GAUGE W/GAUGE COCK (SEE SPEC'S FOR RANGE)
	THERMOMETER-DIAL (SEE SPEC'S FOR RANGE)
	THERMOMETER-STEM (SEE SPEC'S FOR RANGE)
	THERMOMETER-TEST WELL
	PRESSURE TEST FITTING
	COMBINATION PRESSURE/TEMPERATURE TEST WELL
	PUMP
	THERMOSTAT
	W-TYPE STRAINER (W/HOSE END VALVE)
	MANUAL AIR VENT
	AUTOMATIC AIR VENT
	SHUT-OFF & BALANCE VALVE W/PRESSURE TAPS
	2-WAY CONTROL VALVE

GENERAL MECHANICAL NOTES

- THE SUBMISSION OF A PROPOSAL BY THE CONTRACTOR IS NOTIFICATION THAT HE HAS TOTALLY FAMILIARIZED HIMSELF WITH THE CONTRACT DOCUMENTS AND EXISTING SITE CONDITIONS AND HAS AGREED TO PROVIDE THE NECESSARY LABOR AND MATERIAL FOR THE COMPLETE INSTALLATION OF EACH SYSTEM IN A NEAT AND WORKMANLIKE MANNER IN ACCORDANCE WITH THE BEST PRACTICES OF THE INDUSTRY AND IN COMPLIANCE WITH ALL AUTHORITIES HAVING JURISDICTION.
- THE CONTRACT DRAWINGS ARE PRESENTED TO THE CONTRACTOR WITH THE UNDERSTANDING THAT HE IS AN EXPERT AND COMPETENT IN THE PREPARATION OF CONTRACT BID PRICES ON THE BASIS OF INFORMATION SUCH AS CONTAINED IN THE CONTRACT DOCUMENTS. IT IS THE INTENT OF THE CONTRACT DRAWINGS AND SPECIFICATIONS TO CALL FOR FINISHED WORK, TESTED AND READY FOR OPERATION AND IN COMPLETE CONFORMANCE WITH ALL APPLICABLE CODES, RULES AND REGULATIONS. MINOR ITEMS NOT USUALLY SHOWN OR SPECIFIED, BUT MANIFESTLY NECESSARY FOR THE PROPER INSTALLATION AND OPERATION OF THE VARIOUS SYSTEMS, SHALL BE INCLUDED IN THE WORK AND IN THE PROPOSAL THE SAME AS IF SPECIFIED OR SHOWN ON THE CONTRACT DRAWINGS. IF ANY DEPARTURES FROM THE CONTRACT DRAWINGS ARE DEEMED NECESSARY, DETAILS OF SUCH DEPARTURES AND THE REASONS THEREFOR SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW. NO DEPARTURES SHALL BE MADE WITHOUT PRIOR REVIEW OF THE ENGINEER.
- VISIT THE SITE AND VERIFY ALL DIMENSIONS IN THE FIELD, AND ADVISE THE ARCHITECT/ENGINEER AND THE OWNER OF ANY DISCREPANCIES BEFORE PERFORMING THE WORK.
- THE CONTRACT DRAWINGS INDICATE ARRANGEMENTS AND APPROXIMATE SIZES AND RELATIVE LOCATIONS OF PRINCIPAL APPARATUS, EQUIPMENT, DEVICES AND SERVICES TO BE PROVIDED. CONTRACT DRAWINGS ARE DIAGRAMMATIC AND ARE A GRAPHIC REPRESENTATION OF CONTRACT REQUIREMENTS TO BEST AVAILABLE STANDARDS AT THE SCALE INDICATED.
- LAYOUT OF EQUIPMENT INDICATED ON THE CONTRACT DRAWINGS SHALL BE CHECKED AND COMPARED AGAINST ALL DRAWINGS AND SPECIFICATIONS OF ALL TRADES AND EXACT LOCATIONS DETERMINED USING REVIEWED SHOP DRAWINGS OF SUCH EQUIPMENT. WHERE PHYSICAL INTERFERENCE OCCURS, CONSULT WITH ENGINEER AND PREPARE DATED, DIMENSIONED DRAWINGS COORDINATED WITH ALL OTHER TRADES WORK IN THE AREA AND CORRECTING SUCH INTERFERENCES. OBTAIN WRITTEN REVIEW OF ENGINEER FOR SUCH DRAWINGS AND DISTRIBUTE SAME AS REQUIRED.
- COORDINATE ALL WORK WITH THE OWNER AND ALL OTHER CONTRACTORS. SCHEDULE WORK IN ACCORDANCE WITH THE CONSTRUCTION SCHEDULE SO THAT ALL OF THE WORK CAN BE INSTALLED WITHOUT DELAYING THE PROJECT.
- PREPARE FULLY DIMENSIONED FIELD INSTALLATION DRAWINGS. THESE DRAWINGS SHALL BE FORWARDED TO ALL CONTRACTORS. EACH CONTRACTOR SHALL SUBSEQUENTLY IN SUCCESSION DELINEATE HIS RESPECTIVE WORK ON THESE COORDINATION DRAWINGS. WHEN ALL WORK HAS BEEN PROPERLY SHOWN ON THE COORDINATION DRAWINGS, AND ALL CONTRACTORS AGREE THAT THEIR RESPECTIVE WORK CAN BE INSTALLED AND WILL PROPERLY FIT TOGETHER, THEY SHALL SO ACKNOWLEDGE BY ENDORSING THE DRAWING(S). ANY WORK DONE PRIOR TO COMPLETION OF ABOVE COORDINATION PROCESS FOUND IN CONFLICT SHALL BE REMOVED AND REPLACED AT CONTRACTOR'S EXPENSE.
- SECURE AND PAY ALL FEES AND PERMITS PERTAINING TO THE CONTRACT.
- ALL EQUIPMENT SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.
- SCHEDULE ALL SHUTDOWNS THAT AFFECT UTILITIES AND PORTIONS OF THE BUILDING THAT MUST REMAIN IN OPERATION WITH THE OWNER.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RIGGING, HANDLING AND PROTECTION OF MATERIALS. ALL EQUIPMENT AND MATERIALS SHALL BE NEW AND WITHOUT BLEMISH OR DEFECT.
- PROVIDE LABOR TO RECEIVE, UNLOAD, STORE, PROTECT AND TRANSFER TO POINT OF INSTALLATION OWNER FURNISHED ITEMS.
- WHERE CONDUIT, CABLES, DUCTWORK OR PIPING PASSES THROUGH FIRE RATED FLOORS OR WALLS, THE PENETRATION SHALL BE COMPLETELY SEALED WITH A FIRE STOP MATERIAL THAT IS UL LISTED AND ACCEPTED BY THE BUILDING DEPARTMENT AND FIRE DEPARTMENT AS BEING SUITABLE FOR THIS SERVICE. THIS MATERIAL SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE MANUFACTURER TO MAINTAIN THE UL LISTED FIRE RATING OF THE PENETRATED WALL OR FLOOR.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SLAB OPENINGS, WALL OPENINGS, BEAM PENETRATIONS AND CORING AS IT RELATES TO HIS WORK. CONTRACTOR SHALL SUBMIT SIZE AND LOCATION TO THE STRUCTURAL ENGINEER FOR REVIEW.
- SUBMIT SCHEDULE OF SUBMITTALS PRIOR TO SUBMITTING ANY SHOP DRAWINGS. THIS SCHEDULE SHALL IDENTIFY ALL PRODUCT DATA, DRAWINGS, ETC. TO BE SUBMITTED FOR THIS PROJECT, INCLUDING THE ANTICIPATED DATE OF EACH SUBMISSION. COMPLY WITH THE REQUIREMENTS OF DIVISION 1 OF THE SPECIFICATIONS. ANY WORK INSTALLED OR EQUIPMENT PURCHASED PRIOR TO RECEIPT OF ENGINEER REVIEWED SHOP DRAWINGS THAT REQUIRES CHANGES SHALL BE REPLACED AT CONTRACTOR EXPENSE.
- SUBMIT CATALOG INFORMATION, FACTORY ASSEMBLY DRAWINGS AND FIELD INSTALLATION DRAWINGS AS REQUIRED FOR A COMPLETE EXPLANATION AND DESCRIPTION OF ALL ITEMS TO BE PROVIDED. THE CONTRACTOR SHALL REVIEW AND APPROVE ALL SHOP DRAWINGS. NO SUBMISSION WILL BE ACCEPTED WITHOUT THE SIGNED APPROVAL OF THE CONTRACTOR. THE CONTRACTOR SHALL CHECK AND VERIFY ALL FIELD MEASUREMENTS.
- PROVIDE AS-BUILT DOCUMENTS AND OPERATING/MAINTENANCE MANUALS AS SPECIFIED IN DIVISION 1 OF THE SPECIFICATIONS.
- INSTALLED SYSTEMS SHALL OPERATE UNDER ALL CONDITIONS OF LOAD WITHOUT SOUND OR VIBRATION THAT IS OBJECTIONABLE TO THE ENGINEER, ARCHITECT OR OWNER. OBJECTIONABLE SOUND OR VIBRATION CONDITIONS SHALL BE CORRECTED IN REVIEWED MANNER BY THE CONTRACTOR AT HIS EXPENSE.
- FURNISH ACCESS DOORS AS REQUIRED FOR OPERATION AND MAINTENANCE OF CONCEALED EQUIPMENT, VALVES, CONTROLS, ETC., AND COORDINATE THEIR DELIVERY WITH THE INSTALLING TRADE.
- ALL WORK FURNISHED UNDER THE CONTRACT SHALL BE GUARANTEED AGAINST ANY AND ALL DEFECTS IN WORKMANSHIP AND/OR MATERIALS FOR A PERIOD OF NOT LESS THAN ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE OF THE INSTALLATION. ANY DEFECTS OF WORKMANSHIP DEVELOPING DURING THIS PERIOD SHALL BE REMEDIED AND ANY DEFECTIVE MATERIAL REPLACED WITHOUT ADDITIONAL COST.
- NOTIFY ARCHITECT / ENGINEER OF ESTIMATED DATE OF COMPLETION OF ROUGH-IN WORK AN DATE OF BOTH WALL AND CEILING INSTALLATION. NOTIFICATION SHALL BE MINIMUM OF ONE WEEK PRIOR TO COMPLETION DATE TO ENABLE ARCHITECT / ENGINEER SCHEDULING OF PRELIMINARY PUNCHLIST INSPECTION PRIOR TO WALL AND CEILING INSTALLATION. CONTRACTOR SHALL SIMILARLY NOTIFY ARCHITECT / ENGINEER OF COMPLETION OF ALL WORK, INDICATING THE CONTRACTOR IS READY FOR THE ARCHITECT / ENGINEER TO PERFORM THE FINAL PUNCHLIST INSPECTION.
- UPON COMPLETION OF ALL UNFINISHED OR FAULTY WORK NOTED IN ARCHITECT / ENGINEER'S FINAL PUNCHLIST, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER IN WRITING A LETTER OF COMPLETION CERTIFYING THAT ALL PUNCHLIST ITEMS HAVE BEEN COMPLETED AND ALL AS-BUILTS, MANUALS, ETC. HAVE BEEN SUBMITTED.
- MECHANICAL CONTRACTOR TO BECOME FAMILIAR WITH THE ELECTRICAL SCOPE OF WORK FROM THE ELECTRICAL DRAWINGS INCLUDED IN THIS PACKAGE FOR COORDINATION PURPOSES.



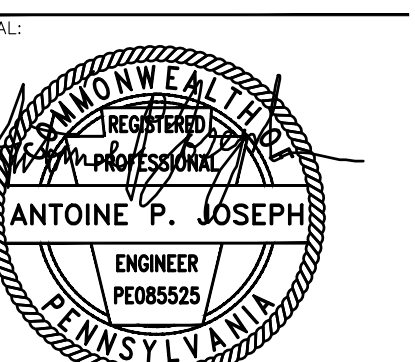
SHEET TITLE:
MECHANICAL SYMBOLS, ABBREV. & GEN. NOTES

REV	DATE	DESCRIPTION

SCALE:
 AS NOTED

DATE: 08/15/2022 DRAWN BY: xx
 CHECKED BY: xx

SHEET NUMBER:

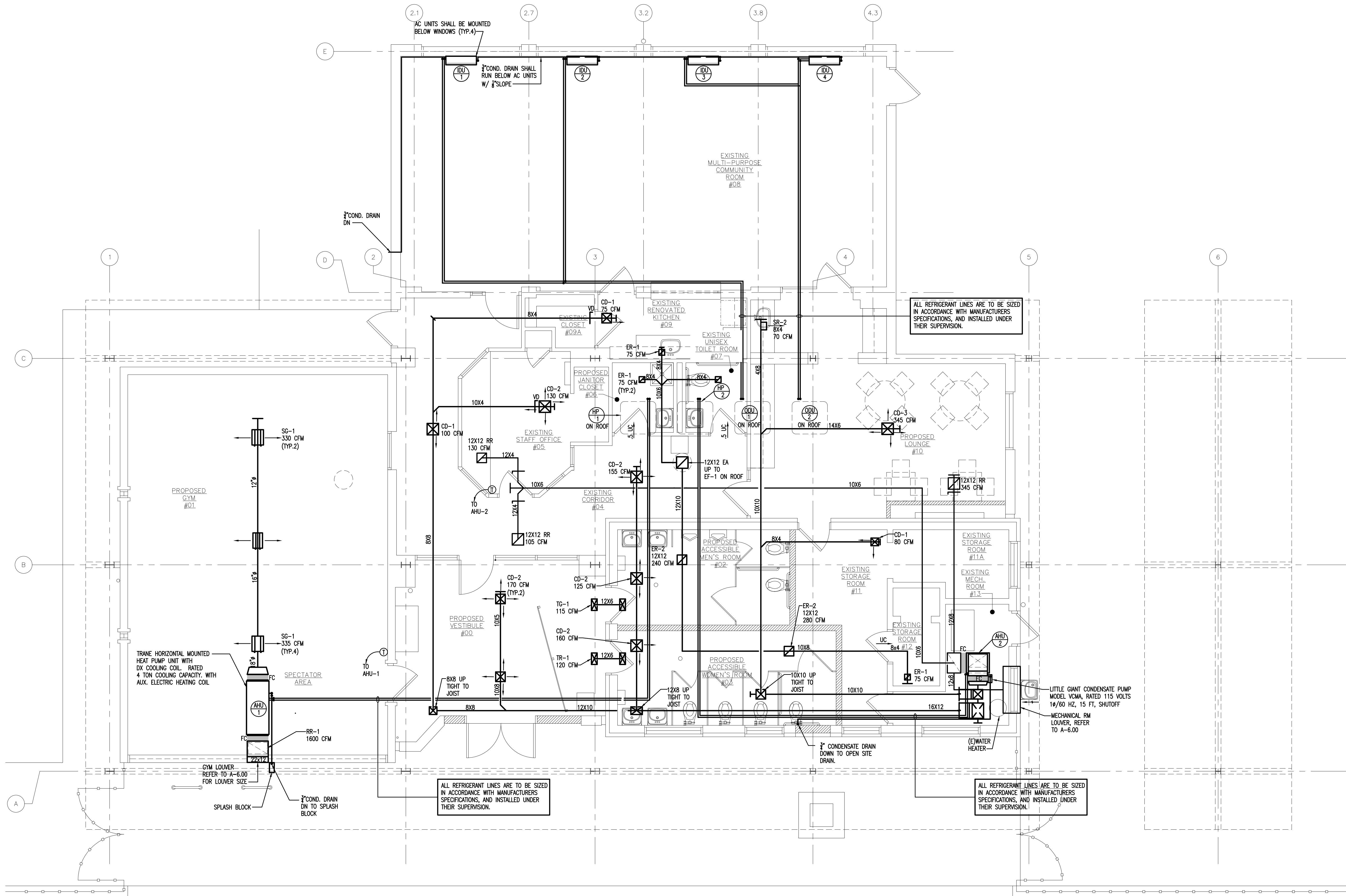


SHEET TITLE:
**MECHANICAL
 FLOOR
 PLAN NEW
 WORK**

REV	DATE	DESCRIPTION

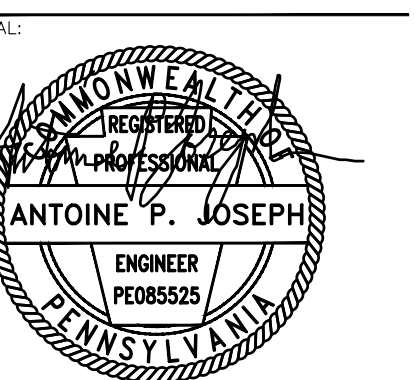
SCALE:
 AS NOTED
 DATE: 08/15/2022 DRAWN BY: xx
 CHECKED BY: xx
 SHEET NUMBER:

M-1.0



PROPOSED FIRST FLOOR PLAN - HVAC NEW WORK

SCALE: 1/4"=1'-0"



SHEET TITLE:
**MECHANICAL
 ROOF PLAN**

REV	DATE	DESCRIPTION

SCALE:
 AS NOTED

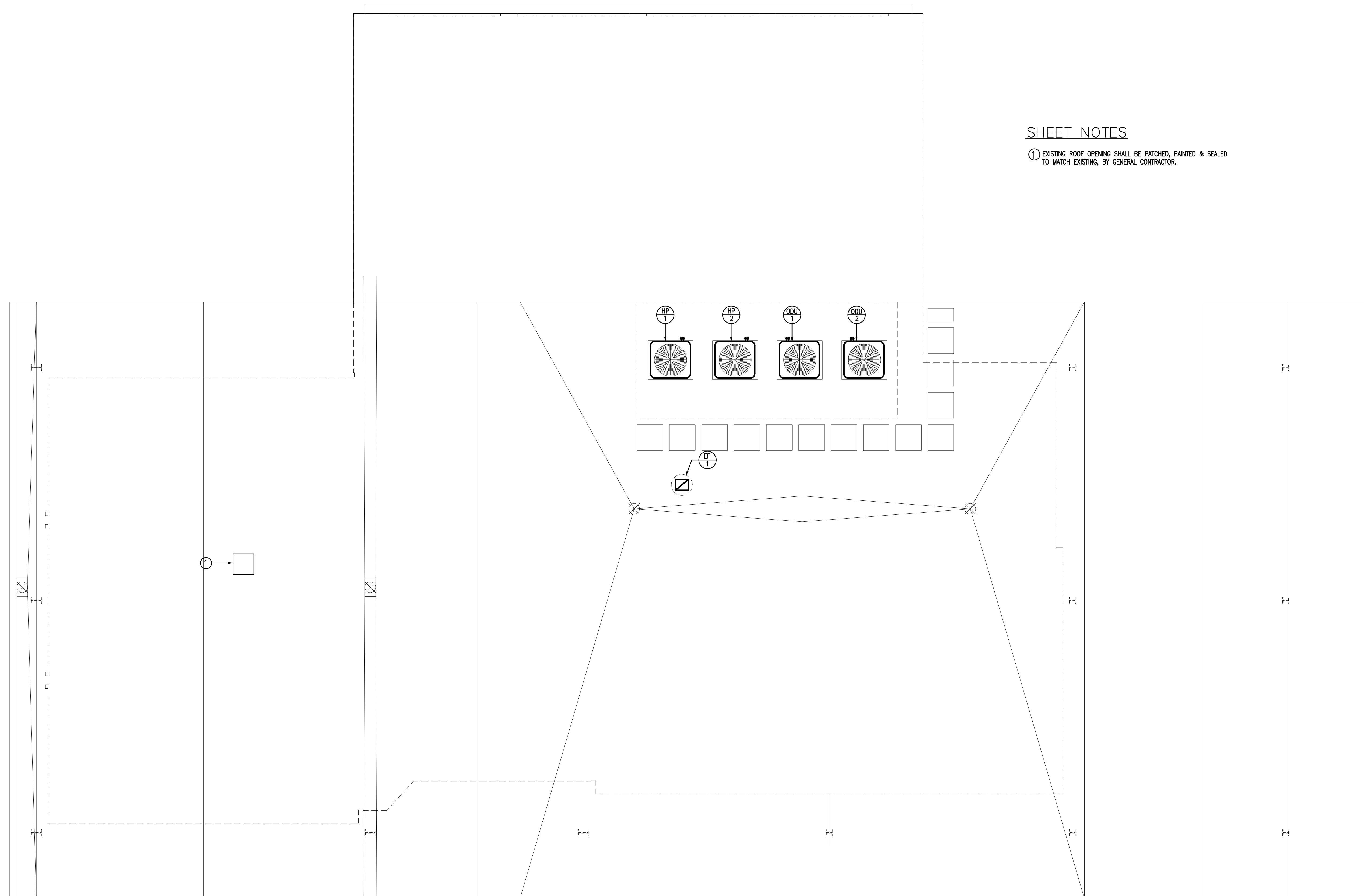
DATE: 08/15/2022 DRAWN BY: xx
 CHECKED BY: xx

SHEET NUMBER:

M-1.1

SHEET NOTES

- ① EXISTING ROOF OPENING SHALL BE PATCHED, PAINTED & SEALED TO MATCH EXISTING, BY GENERAL CONTRACTOR.



ROOF PLAN - HVAC NEW WORK

SCALE: 1/8"=1'-0"

VRF SPLIT SYSTEM SCHEDULE (DUCTLESS INDOOR UNIT)																	
SYMBOL	NOM. TONS	TYPE	SERVICE	REFRIGERANT	SUPPLY FAN DATA				COOLING CAP (MBH)		HEAT CAPACITY (MBH)	ELECTRICAL DATA			OPER. WEIGHT (LBS.)	BASIS OF DESIGN	NOTES
					CFM	OA CFM	S.P. (W.C.)	WATTS	TOTAL	SENSIBLE		MCA	MOCP	V/PH/Hz			
IDU - 1	2.0	WALL MOUNTED	MULTI - PURPOSE	R410A	600	0	-	-	24	20	27	-	-	208 - 230 /1/60	60	DIAKIN	1, 2, 3, 4, 5
IDU - 2	2.0	WALL MOUNTED	MULTI - PURPOSE	R410A	600	0	-	-	24	20	27	-	-	208 - 230 /1/60	60	XX	1, 2, 3, 4, 5
IDU - 3	2.0	WALL MOUNTED	MULTI - PURPOSE	R410A	600	0	-	-	24	20	27	-	-	208 - 230 /1/60	60	XX	1, 2, 3, 4, 5
IDU - 4	2.0	WALL MOUNTED	MULTI - PURPOSE	R410A	600	0	-	-	24	20	27	-	-	208 - 230 /1/60	60	XX	1, 2, 3, 4, 5

- NOTES:
1. PROVIDE MOUNTING HARDWARE, CONDENSATE OVERFLOW CUTOFF SWITCH, AND OTHER INSTALLATION HARDWARE AS REQUIRED. INSTALL IN STRICT CONFORMANCE WITH THE MFR'S WRITTEN INSTRUCTIONS. PROVIDE FACTORY INSTALLED PUMP.
2. DISCONNECT FURNISH AND INSTALLED BY E.C. LINE VOLTAGE WIRING BY E.C. INDOOR UNIT IS FED VIA OUTDOOR UNIT.
3. PROVIDE AS SPECIFIED OR APPROVED (BY EOR) EQUAL BY HITACHI, MITSUBISHI.
4. CAPACITIES ABOVE ARE ADJUSTED JOB SPECIFIC.
5. PROVIDE PROGRAMMABLE WIRED CONTROLLER.

VRF SPLIT SYSTEM SCHEDULE (OUTDOOR UNIT)													
SYMBOL	NOM. TONS	SERVICE	REFRIGERANT	CONNECTED INDOOR UNITS	ELECTRICAL			SEER	HSPF	HEAT CAPACITY (MBH)	COOLING CAPACITY (MBH)	BASIS OF DESIGN	NOTES
					MCA	MOCP	V/PH/Hz						
ODU - 1	2.0	IDU - 1 & 2	R410A	1	20	30	208 - 230 /1/60	20	12.6	27	24	DIAKIN	1, 2, 3, 4, 5, 6, 7
ODU - 2	2.0	IDU - 3 & 4	R410A	1	20	30	208 - 230 /1/60	20	12.6	27	24	XX	1, 2, 3, 4, 5, 6, 7

- NOTES:
1. PROVIDE LINESIZES SIZES AND ACCESSORIES AS REQUIRED. INSTALL IN STRICT ACCORDANCE WITH MFR'S INSTALLATION INSTRUCTIONS.
2. PROVIDE EQUIPMENT BASE FOR LEVEL MOUNTING. PROVIDE PIPE PORTAL FOR REFRIGERANT AND POWER.
3. DISCONNECT ALL LINE VOLTAGE WIRING BY E.C. LOW VOLTAGE BY M.C.
4. PROVIDE AS SPECIFIED OR APPROVED (BY EOR) EQUAL BY HITACHI, MITSUBISHI.
5. CONTRACTOR SHALL COORDINATE ALL SYSTEM LAYOUT AND SIZING WITH MANUFACTURER. PROVIDE COMPONENTS NOT NECESSARY INDICATED ON PLANS.
6. CONTRACTOR SHALL PROVIDE REFRIGERANT CHARGING AS REQUIRED BY MANUFACTURER. PROVIDE LOW AMBIENT WIND BAFFLE KIT.
7. PROVIDE WALL BRACKETS FOR WALL MOUNTING.

AIR HANDLING UNIT SCHEDULE																						
SYMBOL	LOCATION	SERVICE	CONFIGURATION	SUPPLY FAN DATA				DX COOLING				REVERSE CYCLE HEAT			SINGLE POINT ELECTRICAL			FILTERS		BASIS OF DESIGN	OPER. WEIGHT (LBS.)	NOTES
				MAX. SA CFM	OA CFM	E.S.P. (W.G.)	HP	TYPE	REFRIG.	NOM. TONS	DESIGN EAT (F@B / w@B)	CAP (MBH)	DESIGN EAT (F@B)	BACKUP ELEC. CAP (KW)	MCA	MOCP	V/PH/Hz	TYPE	AVG. EFF % ASHRAE			
AHU - 1	GYM	GYM	HORIZONTAL	1600	400	1.5"	2.5	CENTF	R410A	2.0	90°/78°	30	10°	7.2	20	30	208 - 230 /1/60	1" DISP PLEAT	30% /MERV8	TRANE	XX	1, 2, 3, 4, 5, 6, 7, 8, 9
AHU - 2	MECH RM	OFFICE AREA	VERTICAL	1580	400	1.5"	XX	CENTF	R410A	5.0	90°/78°	30	10°	7.2	20	30	208 - 230 /1/60	1" DISP PLEAT	30% /MERV8	TRANE	XX	1, 2, 3, 4, 5, 6, 7, 8, 9

- NOTES:
1. MECHANICAL CONTRACTOR SHALL PROVIDE ONE (1) YEAR SUPPLY FILTERS TO FIT AHU FILTER RACK.
2. MANUFACTURER SHALL PROVIDE 7-DAY DIGITAL PROGRAMMABLE ENERGY STAR THERMOSTAT WITH 3 STAGES TO SUIT SYSTEM.
3. DISCONNECT SWITCH BY ELECTRICAL CONTRACTOR.
4. MECHANICAL CONTRACTOR SHALL PROVIDE SECONDARY DRAIN PAN OVERFLOW KILL SWITCH EQUAL TO RECTOR SEAL SS2. WIRE IN SERIES WITH FAN CONTROL LEADS TO DISABLE SYSTEM ON DETECTION.
5. MECHANICAL CONTRACTOR SHALL PROVIDE 1" DEFLECTION SPRING HANGERS, AND OTHER REQUIRED MOUNTING HARDWARE.
6. ACCEPTABLE ALTERNATE MANUFACTURERS SHALL BE CARRIER, TRANE, YORK AND GOODMAN. ALL SUBSTITUTIONS SHALL MEET THE PERFORMANCE SPECIFIED.
7. PROVIDE FIELD INSTALLED ELECTRIC HEAT KIT, HORIZONTAL SUPPORT FRAME KIT.
8. MECHANICAL CONTRACTOR SHALL PROVIDE AHU FILTER/RA SUPPORT BOX EQUAL TO ALPINE SBFDF-30.
9. PROVIDE SINGLE POINT POWER KIT, REPLACE INTERNAL BREAKERS AS REQUIRED.

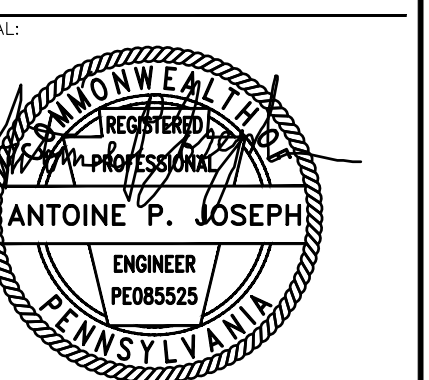
HEAT PUMP SCHEDULE																
SYMBOL	LOCATION	EQUIP. SERVED	NOM. COOLING TONS	NOM. HEATING (MBH)	REFRIG.	AMB D.B. (F)	SEER	HSPF	STAGES	ELECTRICAL DATA			BASIS OF DESIGN		OPER. WEIGHT (LBS.)	NOTES
										MCA	MOCP	V/PH/Hz	MFR	MODEL		
HP - 1	ROOF	AHU-1	2.0	XX	R410A	90°						208 - 230 /1/60				1, 2, 3, 4, 5, 6
HP - 2	ROOF	AHU-2	5.0	XX	R410A	90°										

- NOTES:
1. DISCONNECT SWITCH BY ELECTRICAL CONTRACTOR.
2. PROVIDE PREFAB CONCRETE EQUIPMENT PAD LEVELED ON ROOF. PROVIDE SPRING ISOLATION FEET UNDER HP EQUAL TO KINETICS NOISE CONTROL FDS.
3. REFER TO MANUFACTURERS SPECIFICATIONS FOR REFRIGERANT LINE INSTALLATION, SIZING AND ACCESSORIES. UPSIZE LINESET TO PROVIDE 100% CAPACITY AS REQUIRED. INSULATE REFRIGERANT GAS LINE WITH 1/2" ELASTOMERIC.
4. ACCEPTABLE ALTERNATE MANUFACTURER SHALL BE CARRIER, TRANE, YORK AND GOODMAN. ALL SUBSTITUTIONS SHALL MEET THE PERFORMANCE SPECIFIED.
5. PROVIDE CRANKCASE HEATER, FREEZESTAT AND LOW AMBIENT KIT.
6. PROVIDE INDOOR BLOWER SPEED RELAY KIT.

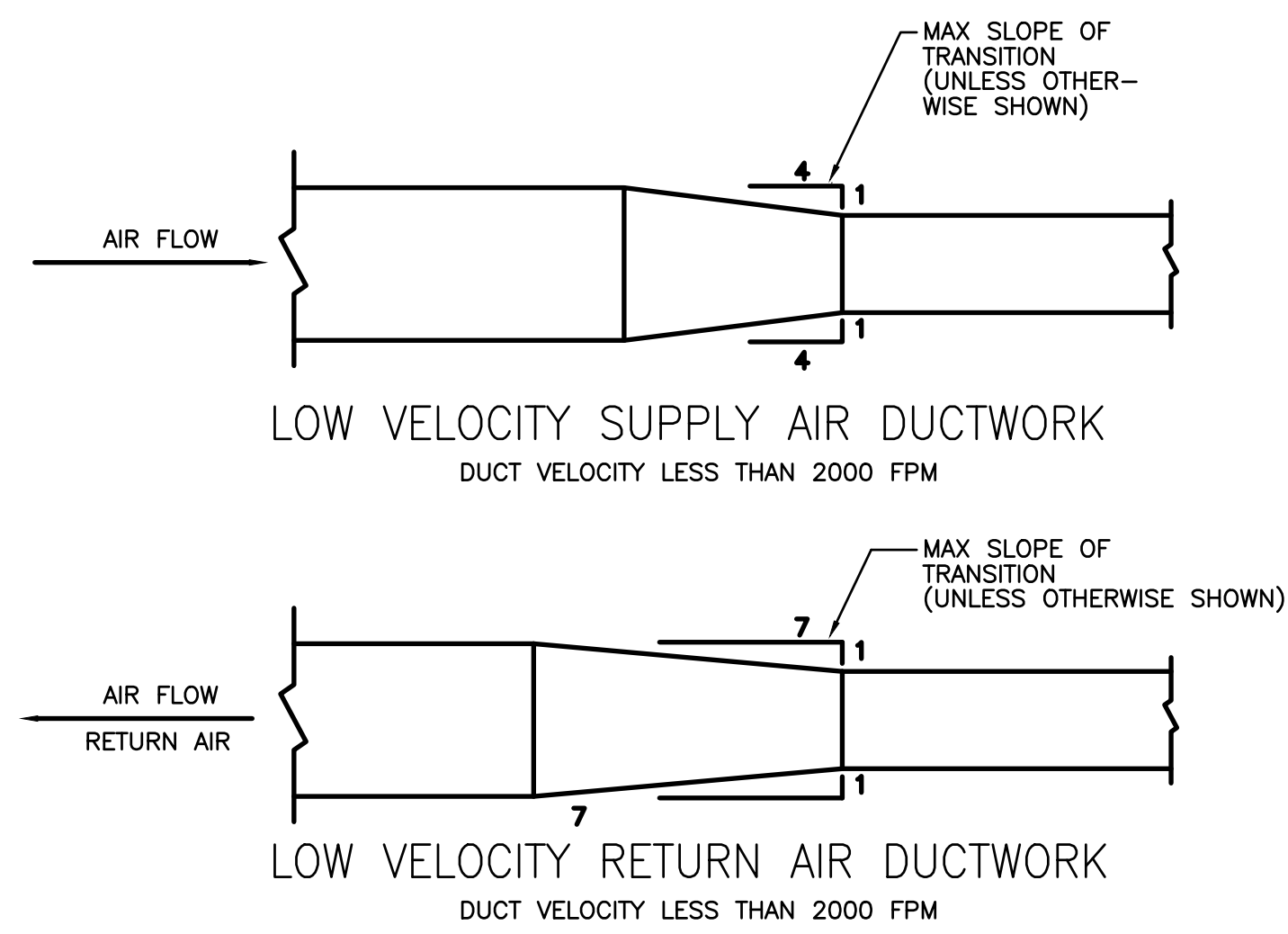
FAN SCHEDULE									
FAN No.	CFM	STATIC PRESSURE	RPM	INPUT WATTS	ELECTRIC			BASIS OF DESIGN	REMARKS
					V	PH	HZ		
EF - 1	820	.25	1420	1/8 hp	120	1	60	COOK - ACRUD-100-300	

AIR TERMINAL SCHEDULE								
SYMBOL	TYPE	CD-1	CD-2	CD-3	SG-1	RR-1	EG-1	TC-1
		LOUVERED FACE	LOUVERED FACE	LOUVERED FACE	LOUVERED FACE	LOUVERED FACE	LOUVERED FACE	LOUVERED FACE
CFM RANGE		75-100	105-160	345	315-550	SEE PLAN	SEE PLAN	SEE PLAN
SIZE (INCHES)	FACE	12X12	12X12	24X24	12X10	20X12	6X6	12X6
	NECK	6"ø	7"ø	12"ø	-	-	-	-
MAX. NECK VELOCITY		500	500	500	500	-	-	-
THROW (FT.)		6	10	13	7	N/A	N/A	N/A
MAX. NC		-	12	15	16	-	-	-
MAX. S.P. (IN. W.G.)		0.034	0.055	0.082	0.115	0.050	0.050	0.050
REMARKS		TITUS TMSA/STEEL	TITUS TMSA/STEEL	TITUS TMSA/STEEL	TITUS 300/350 GRILLES	TITUS 300/350 FILTER RETURN	TITUS 300/350 EXHAUST GRILLE	TITUS 300/350 EXHAUST GRILLE

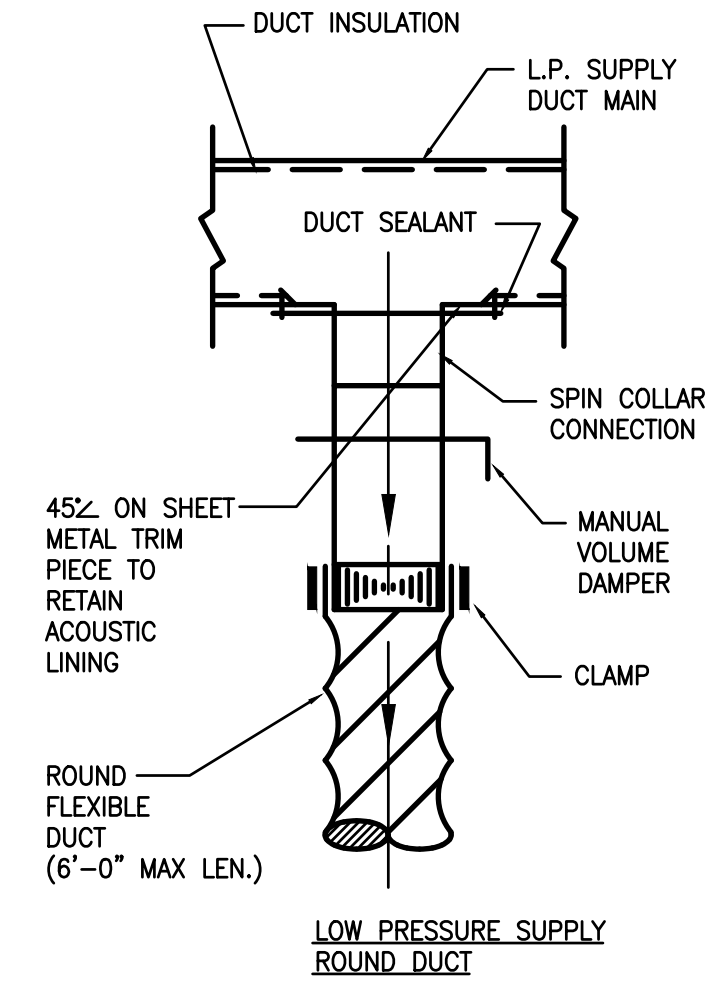
- NOTE:
1. SUPPLY AIR DIFFUSER COLOR BY ARCHITECTS
2. ACCESS MVD THROUGH NECK OF DIFFUSER



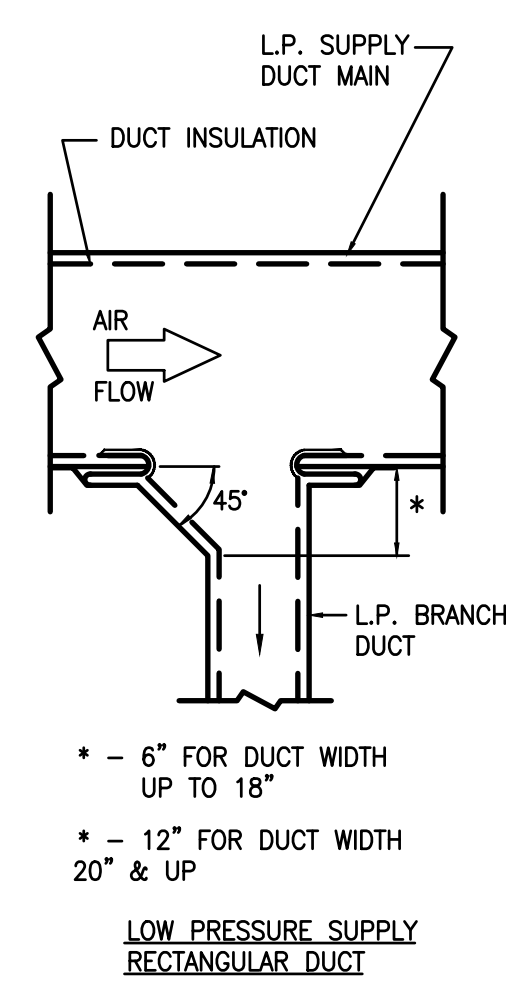
REV	DATE	DESCRIPTION



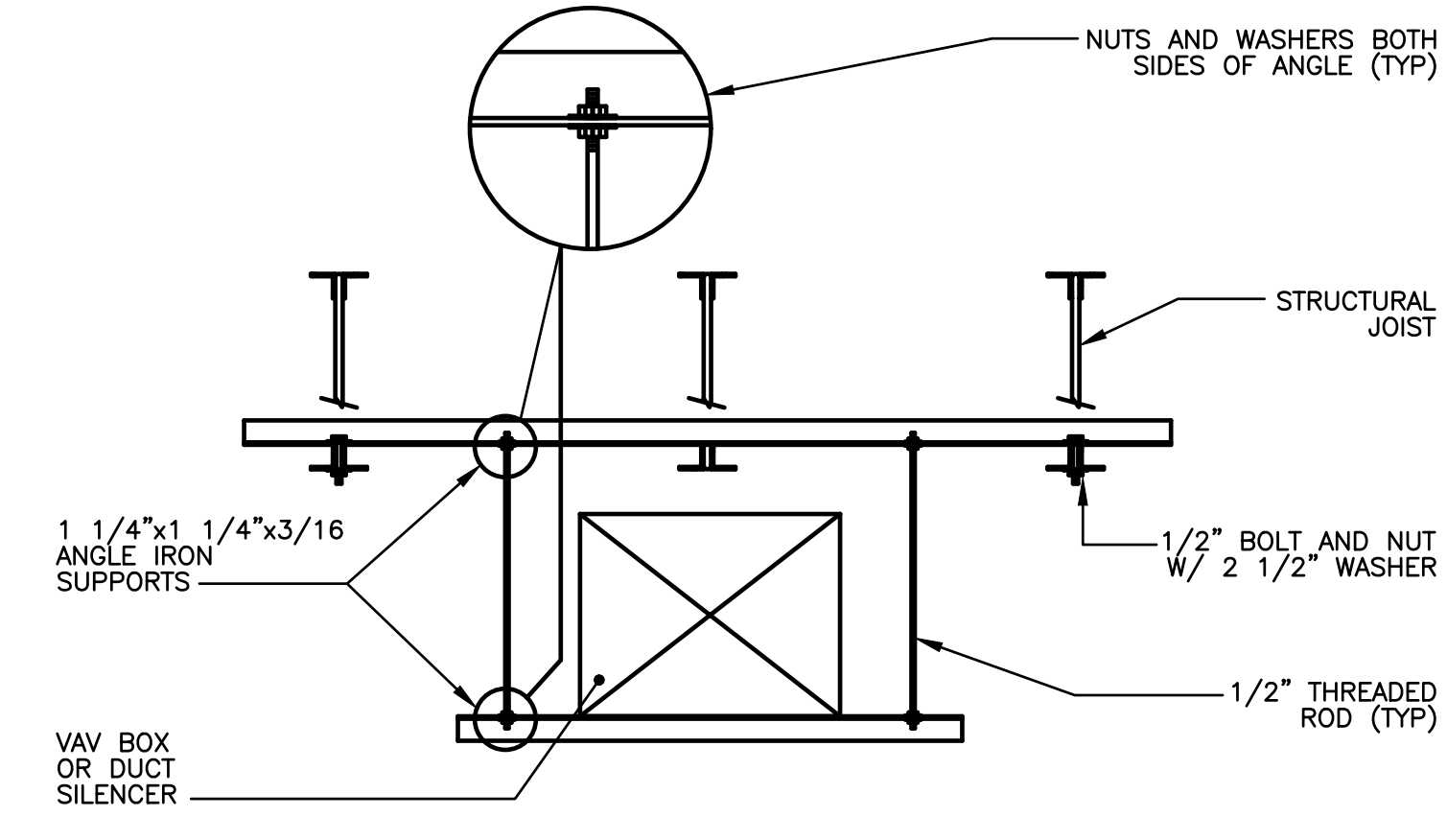
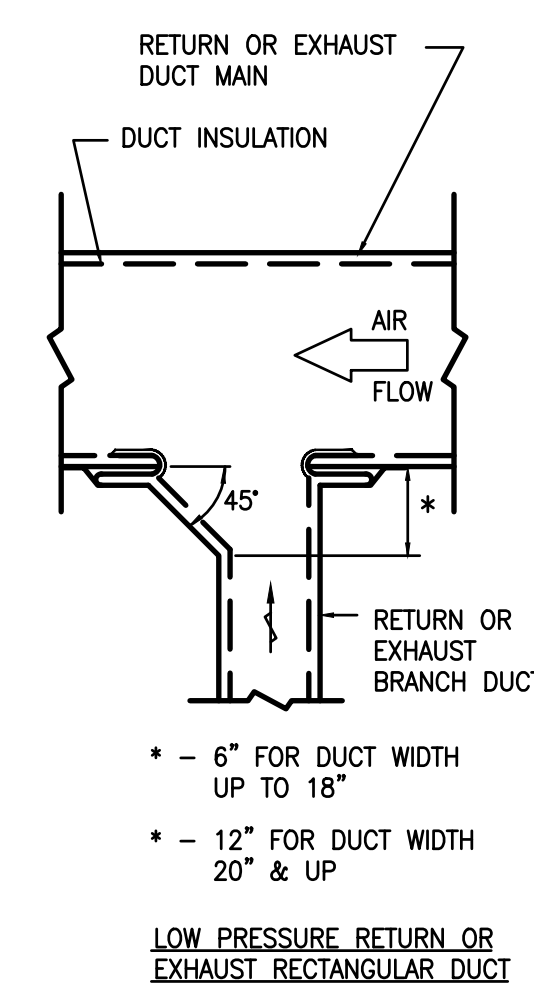
1 RETANGULAR DUCT
M-2 TRANSITION DETAIL
N.T.S.



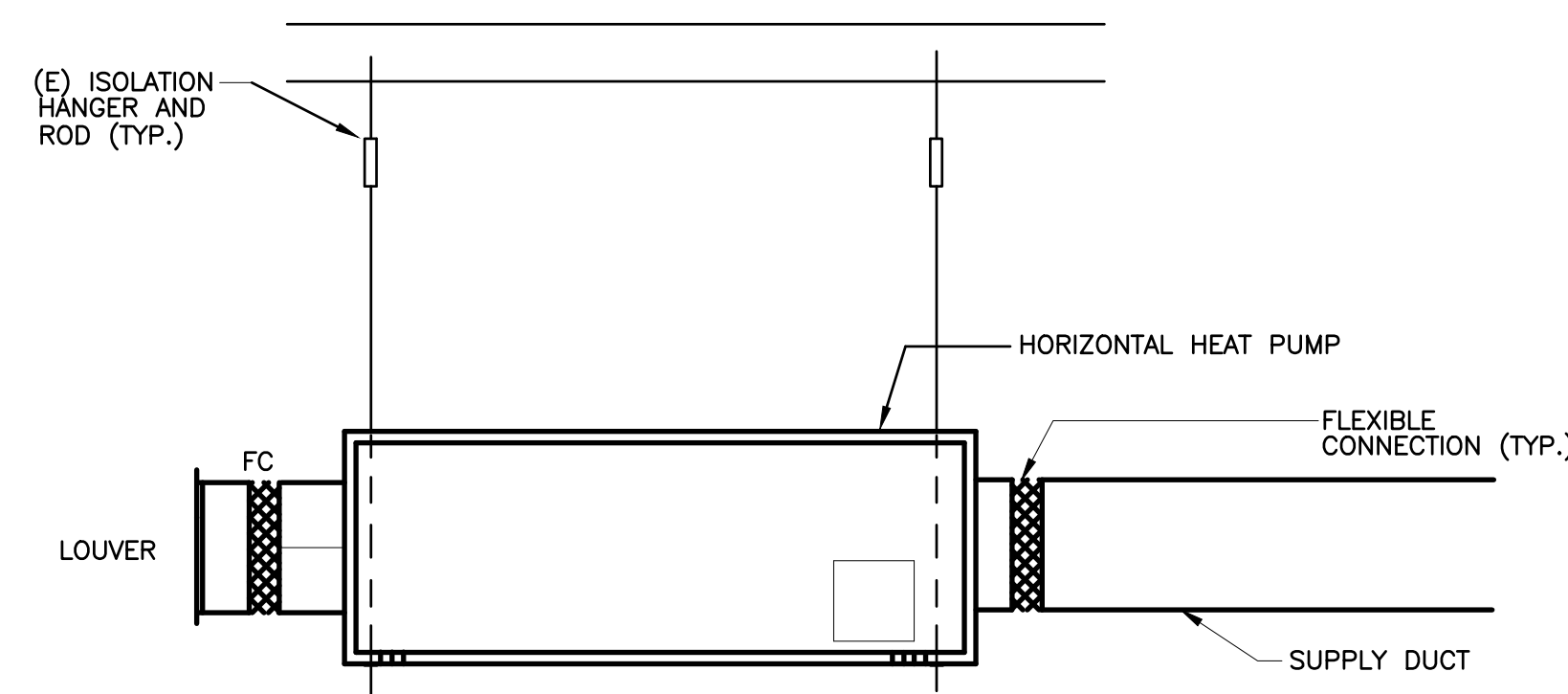
2 BRANCH DUCT TAKE - OFF
M-2 LOW PRESSURE
N.T.S.



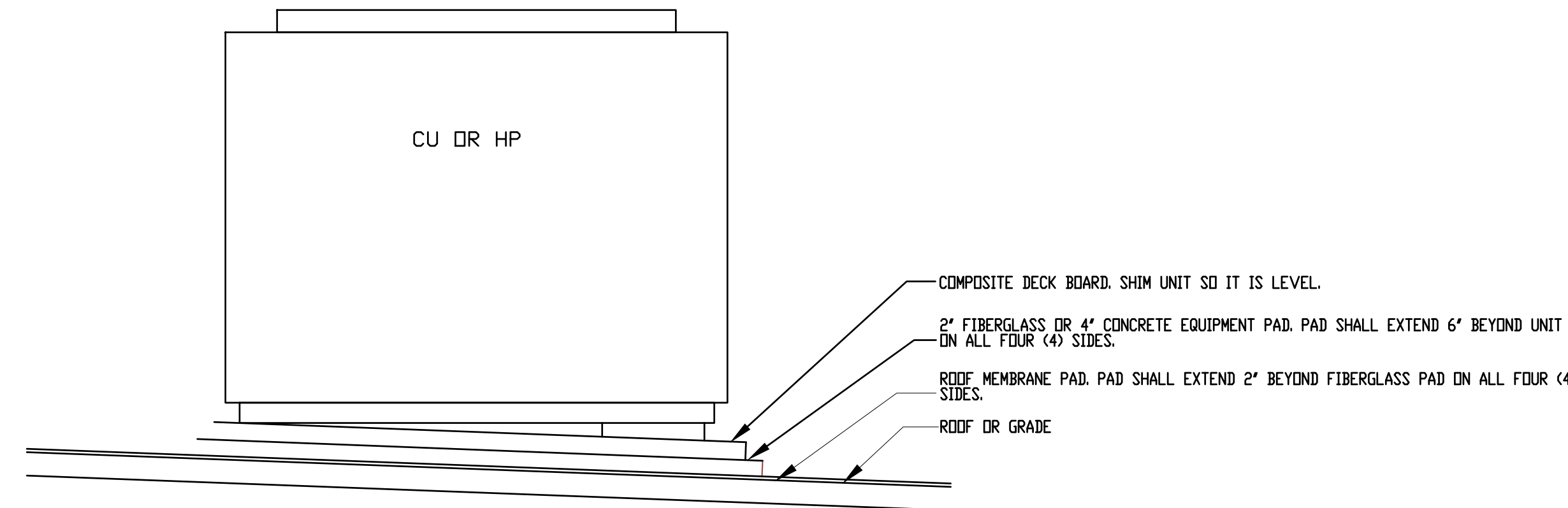
3 BRANCH DUCT TAKE - OFF
M-2 LOW PRESSURE
N.T.S.



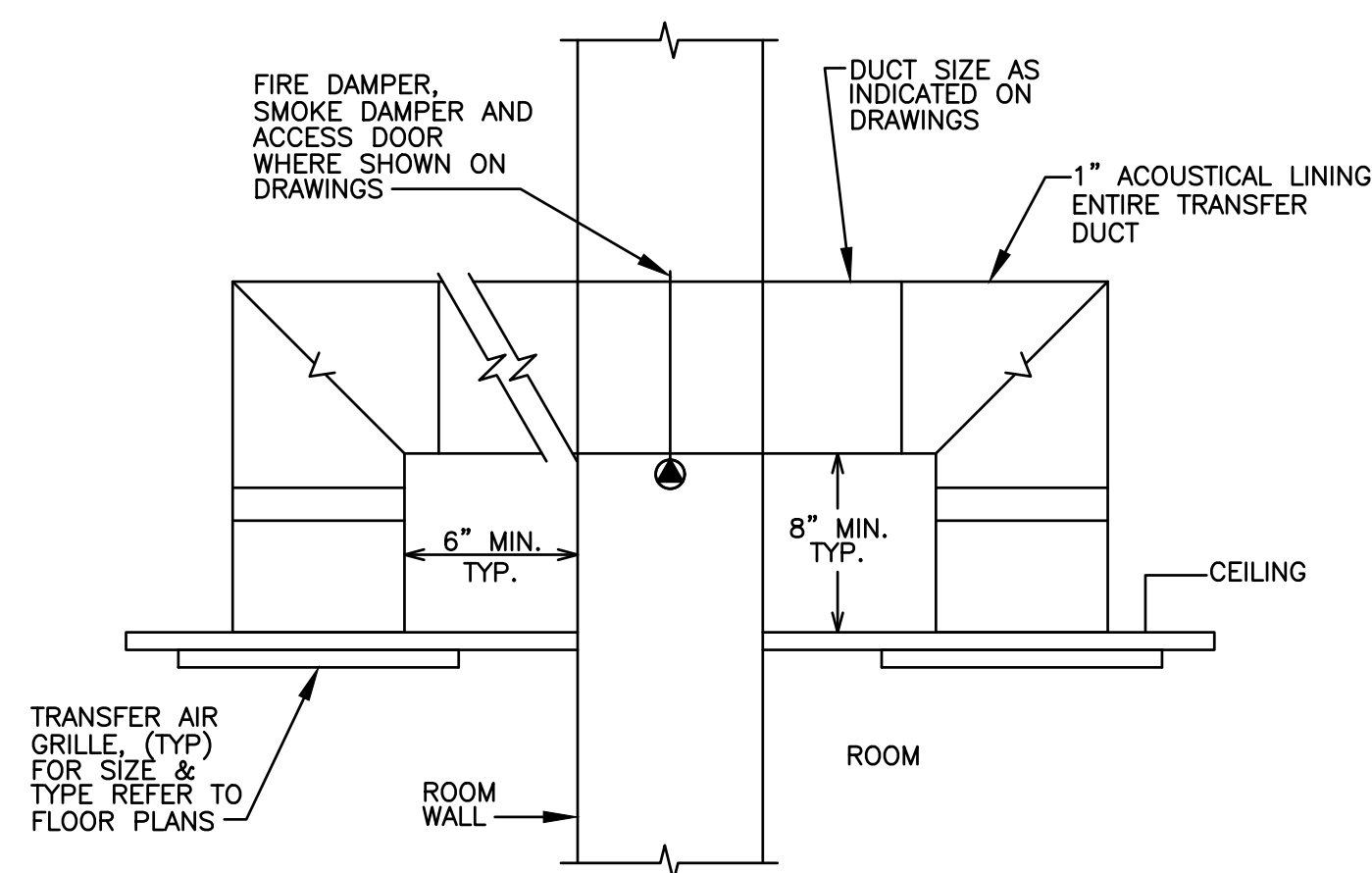
4 DETAIL - DUCTWORK SUPPORT DETAIL
NO SCALE



5 HORIZONTAL HEAT PUMP MOUNTING DETAIL
M-2 NO SCALE
NOTE: FAN COIL UNIT AND INSTALLATION BY EPC CONTRACT.

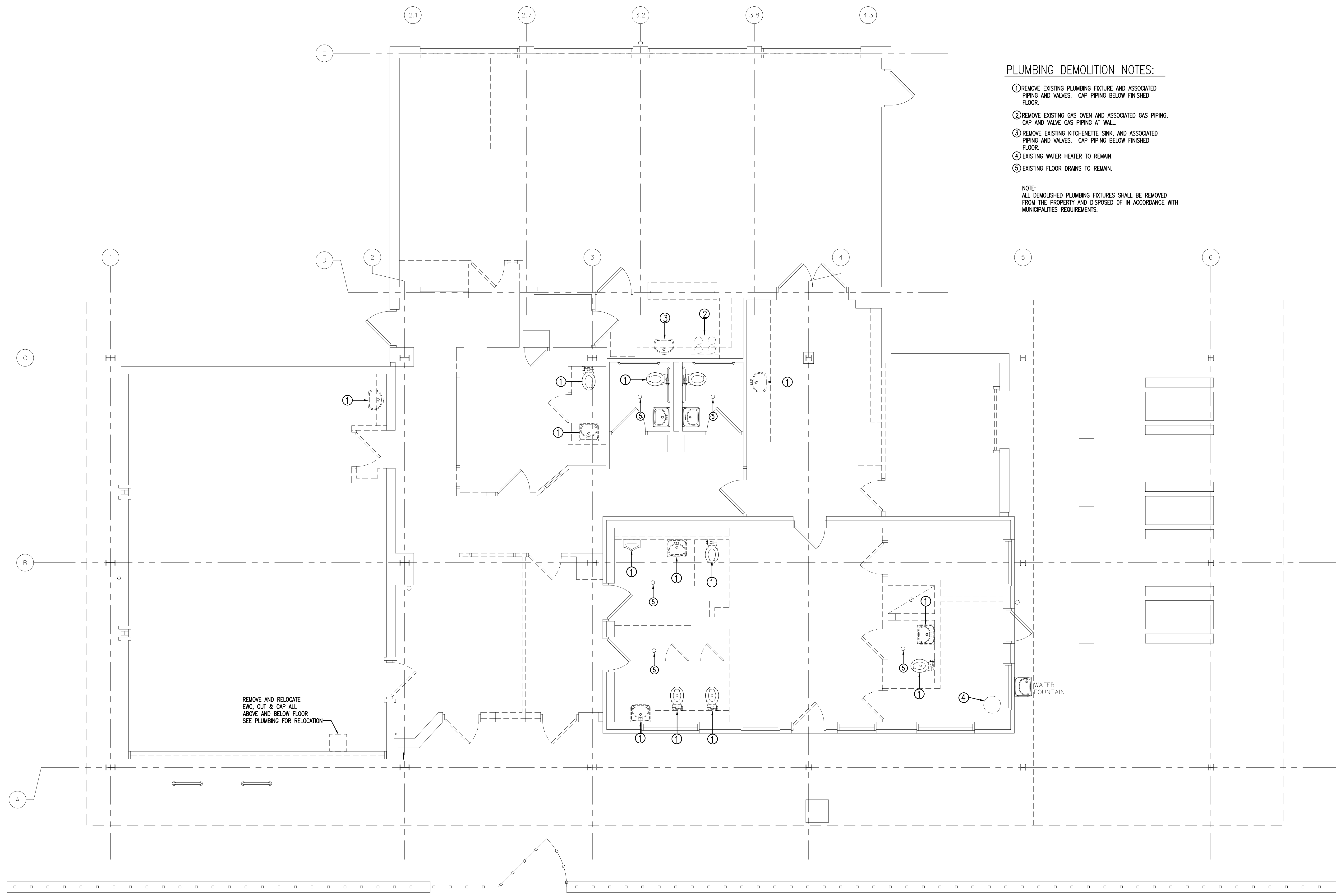


6 HEAT PUMP/ CONDENSER UNIT MOUNTING DETAIL
M-2 N.T.S.



7 TRANSFER DUCT DETAIL
M-2 N.T.S.

REV	DATE	DESCRIPTION



PLUMBING DEMOLITION NOTES:

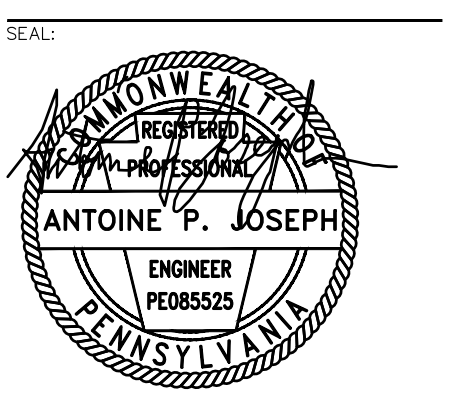
- ① REMOVE EXISTING PLUMBING FIXTURE AND ASSOCIATED PIPING AND VALVES. CAP PIPING BELOW FINISHED FLOOR.
- ② REMOVE EXISTING GAS OVEN AND ASSOCIATED GAS PIPING, CAP AND VALVE GAS PIPING AT WALL.
- ③ REMOVE EXISTING KITCHENETTE SINK, AND ASSOCIATED PIPING AND VALVES. CAP PIPING BELOW FINISHED FLOOR.
- ④ EXISTING WATER HEATER TO REMAIN.
- ⑤ EXISTING FLOOR DRAINS TO REMAIN.

NOTE:
ALL DEMOLISHED PLUMBING FIXTURES SHALL BE REMOVED FROM THE PROPERTY AND DISPOSED OF IN ACCORDANCE WITH MUNICIPALITIES REQUIREMENTS.

REMOVE AND RELOCATE EWC, CUT & CAP ALL ABOVE AND BELOW FLOOR SEE PLUMBING FOR RELOCATION

EXISTING FLOOR PLAN - PLUMBING DEMOLITION

SCALE: 1/4"=1'-0"



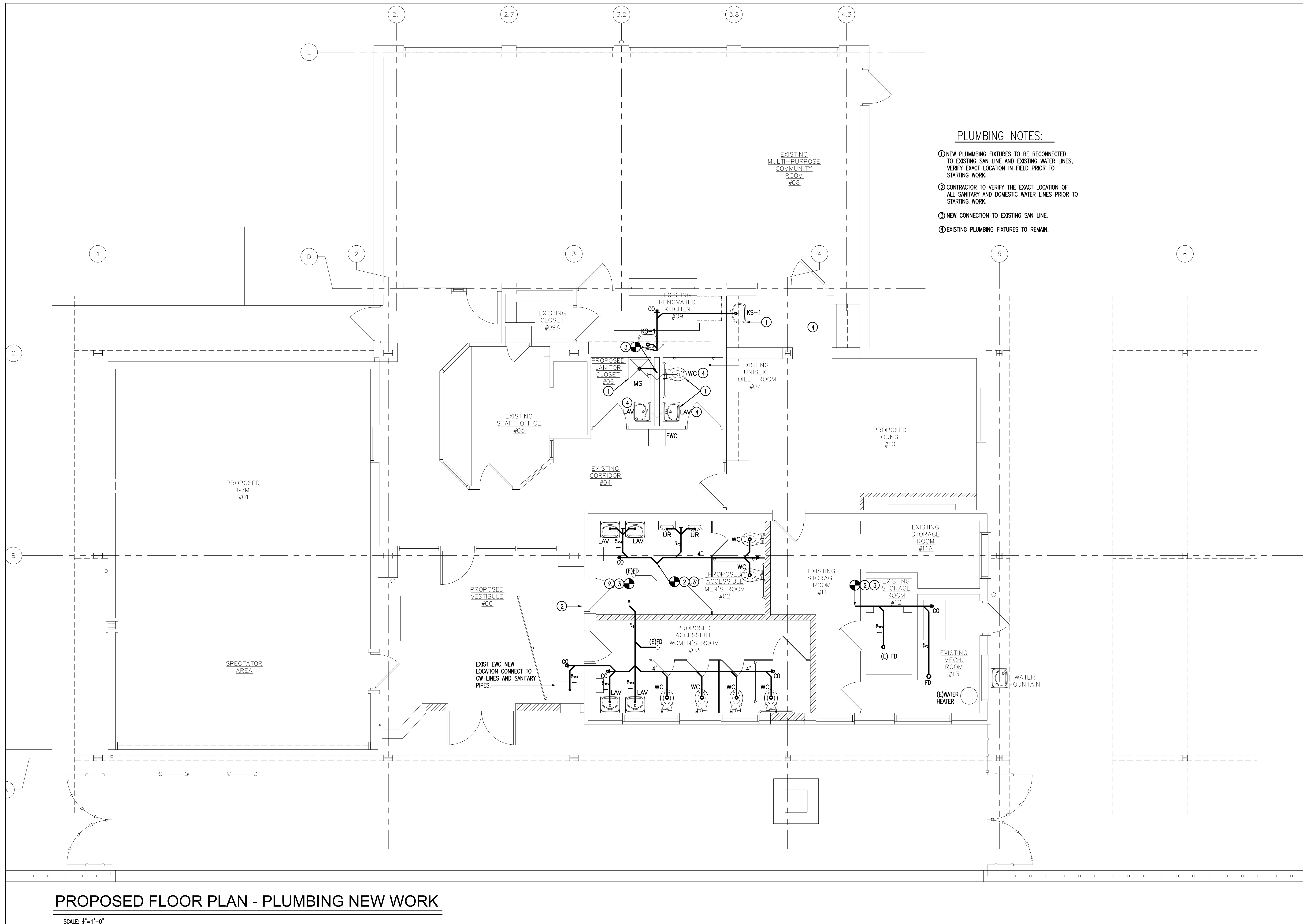
SHEET TITLE:
PLUMBING DEMOLITION PLAN

REV	DATE	DESCRIPTION

SCALE:
AS NOTED

DATE: 08/15/2022 DRAWN BY: xx
SHEET NUMBER: CHECKED BY: xx

PD-1.0



PLUMBING NOTES:

- ① NEW PLUMBING FIXTURES TO BE RECONNECTED TO EXISTING SAN LINE AND EXISTING WATER LINES, VERIFY EXACT LOCATION IN FIELD PRIOR TO STARTING WORK.
- ② CONTRACTOR TO VERIFY THE EXACT LOCATION OF ALL SANITARY AND DOMESTIC WATER LINES PRIOR TO STARTING WORK.
- ③ NEW CONNECTION TO EXISTING SAN LINE.
- ④ EXISTING PLUMBING FIXTURES TO REMAIN.

PROPOSED FLOOR PLAN - PLUMBING NEW WORK

SCALE: 1/4"=1'-0"

CLIENT:
PHILADELPHIA PARKS & RECREATION
Rebuild PHILADELPHIA

PROJECT NAME & ADDRESS:
ZIEHLER PLAYGROUND & RECREATION CENTER
 200-64 E. OLNEY AVENUE
 PHILADELPHIA, PA 19120

PROJECT NUMBER:
16640E-01-02

PRIME CONSULTANT / LANDSCAPE ARCHITECTURE:
SALT DESIGN STUDIO
 LANDSCAPE ARCHITECTURE
 PLANNING & URBAN DESIGN
 161 LEVERINGTON AVE, SUITE 1005
 PHILADELPHIA, PA 19127
 www.saltdesignstudio.com

CIVIL ENGINEERING:
MELIORA DESIGN
 259 MORGAN STREET
 PHOENIXVILLE, PA 19460
 www.melioradesign.com

ARCHITECTURE:
IAN SMITH DESIGN GROUP
 322 E. THOMPSON STREET
 PHILADELPHIA, PA 19125
 www.is-dg.com

LIGHTING DESIGN:
MILLER DESIGN GROUP
 www.millerdesigngrouplighting.com

MEP DESIGN:
MARK ULRICK ENGINEERS, INC.
 622 COOPER STREET, #200
 CAMDEN, NJ 08102
 www.markulrick.com

STRUCTURAL ENGINEERING:
D'HUY ENGINEERING, INC.
 1 EAST BROAD STREET, SUITE 310
 BETHLEHEM, PA 18018
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DRAWING PHASE:
ISSUE FOR BIDDING

SCALE:

ANTOINE P. JOSEPH
 ENGINEER
 PE085525
 PENNSYLVANIA

SHEET TITLE:
PLUMBING FLOOR PLAN NEW WORK

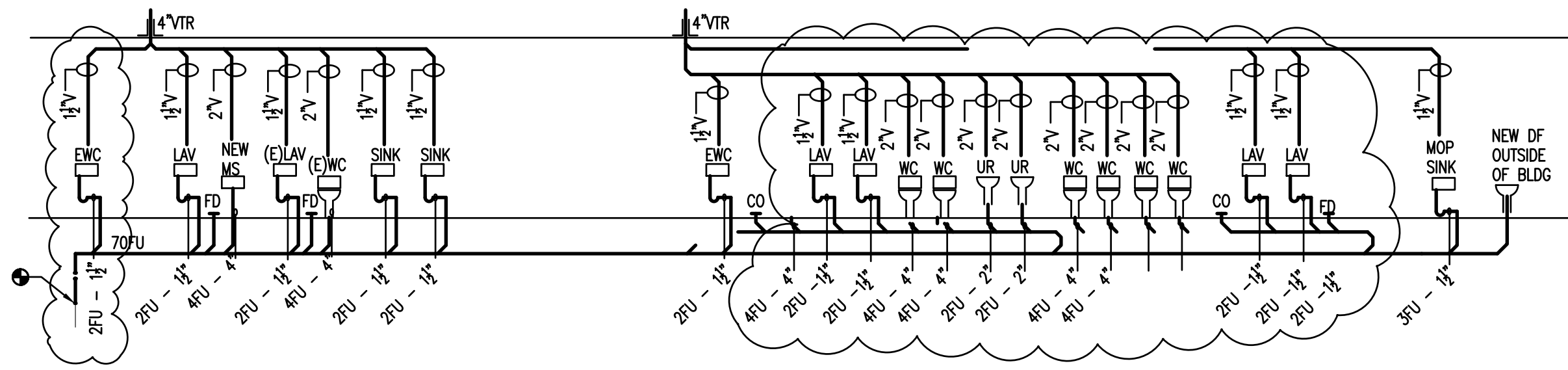
REV	DATE	DESCRIPTION

SCALE:
 AS NOTED

DATE: 08/15/2022 DRAWN BY: xx
 CHECKED BY: xx

SHEET NUMBER:
P-1.0

SALT DESIGN STUDIO FILE NO.:
 2003



EXISTING SANITARY RISER DIAGRAM

SCALE: NTS

NOTES:

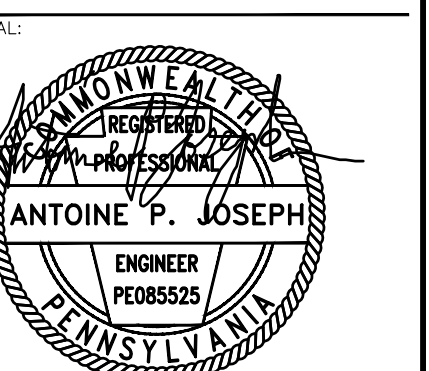
1. MAJORITY OF FIXTURES ARE EXISTING TO REMAIN AS IS THE SANITARY, VENT AND DOMESTIC WATER PIPING.
2. WHERE EXISTING FIXTURES ARE BEING REMOVED AND NOT REPLACED, CAP AND SEAL SANITARY DOMESTIC WATER AND VENT PIPING.
3. CONNECT NEW AND RELOCATED PLUMBING FIXTURES WITH NEW SANITARY, DOMESTIC WATER AND VENT PIPING AS CLOSE TO EXISTING PIPING AS FEASIBLE.
4. ALL NEW COLD WATER AND HOT WATER PIPING ARE TO BE INSULATED WITH 1/2" FIBERGLASS INSULATION.
5. PROVIDE COLD AND HOT WATER SHUT OFF VALVE AT ALL NEW LAVATORIES, SINK AND URINALS.

PLUMBING FIXTURE SCHEDULE

PLAN MARK	FIXTURE TYPE	ADA	DESCRIPTION	MANUFACTURER & MODEL NUMBER	SIZES			
					SAN.	VENT	C.W.	H.W.
WC	WATER CLOSET	NO	MOUNTING TYPE: FLOOR MOUNTED, OUTLET ORIENTATION MATERIAL: BOTTOM, FLUSHOMETER VALVE, STYLE: SIPHON, WATER CONSUMPTION: 1.6 GPF, MATERIAL: VITREOUS CHINA	KOHLER, ZURN, AMERICAN STANDARD & SLOAN: MODEL & COLOR BY ARCHITECTS	4"	2"	1 1/4"	
WC	WATER CLOSET	YES	MOUNTING TYPE: FLOOR MOUNTED, OUTLET ORIENTATION MATERIAL: BOTTOM, FLUSHOMETER VALVE, STYLE: SIPHON, WATER CONSUMPTION: 1.6 GPF, MATERIAL: VITREOUS CHINA	KOHLER, ZURN, AMERICAN STANDARD & SLOAN: MODEL & COLOR BY ARCHITECTS	4"	2"	1 1/4"	
UR	URINAL	-	MOUNTING TYPE: WALL-HUNG, OUTLET: BOTTOM, FLUSH ACTION: WASHOUT, FLUSHOMETER VALVE, WATER CONSUMPTION: 1.0 GAL, MIN FLOW RATE: 25 GPM, VITREOUS CHINA	KOHLER, ZURN, AMERICAN STANDARD & SLOAN: MODEL & COLOR BY ARCHITECTS	3"	2"	3/4"	
LAV	LAVATORY	-	MOUNTING TYPE: WALL-HUNG, DIMENSIONS: 24"x21", D-SHAPED: FRONT OVERFLOW, VITREOUS CHINA, COLOR: WHITE, FAUCET HOLES: 4" CENTERS FOR WALL HUNG, FAUCET MATERIAL: BRASS W/ BRASS VALVE BODIES	KOHLER, ZURN, AMERICAN STANDARD & SLOAN: MODEL & COLOR BY ARCHITECTS	1 1/2"	1 1/2"	1/2"	1/2"
KS-1	KITCHEN SINK	-	MOUNTING TYPE: DROP IN, DIMENSION: 25"x22", TYPE: SELF-RIMMING, SINGLE COMPARTMENT, SINK MATERIAL: CAST IRON, SINK FINISH TYPE: GLOSS, FAUCET HOLES: 3 FAUCET TYPE: THREE-HOLES WIDESPREAD KITCHEN FAUCET	KOHLER, ZURN, AMERICAN STANDARD & SLOAN: MODEL & COLOR BY ARCHITECTS	1 1/2"	1 1/2"	1/2"	1/2"
SK-1	HAND SINK	-	PROVIDE HAND WASH SINK KIT WITH 2 FAUCETS	ELKAY MODEL EWMA4820C	1 1/2"	1 1/2"	1/2"	1/2"
DF	DRINKING FOUNTAIN	YES	SELF CONTAINED, ELECTRIC REFRIGERATED, UNIT SHALL HAVE ADA CLEARANCE, CERTIFIED TO NSF/ANSI 61 & 372 AND MEET ALL FEDERAL, STATE AND CITY LOW-LEAD REQUIREMENTS.	ELKAY OR PPR APPROVED EQUAL MODEL AND COLOR BY ARCHITECTS	1 1/2"	1/2"	1/2"	1/2"
MS	MOP SINK	-	PROVIDE MOP SINK, FAUCET, HOSE AND HOLDER AND WALL GUARDS.	MUSTEE OR APPROVED EQUAL	1 1/2"	1 1/2"	1/2"	1/2"

NOTES:

1. SUPPLY FIXTURE WITH 1/2" TURN SHUT OFF VALVES ON DOMESTIC WATER LINES AT AN ACCESSIBLE LOCATION TO THE FIXTURE.
2. FIXTURE PROVIDED WITH CABINETRY AND INSTALLED BY THE GENERAL CONTRACTOR - SEE ARCHITECTURAL DRAWINGS AND SPECIFICATION FOR FIXTURE TYPE. THIS CONTRACTOR TO PROVIDE ALL MATERIAL NECESSARY TO FULLY PLUMB FIXTURE AND ALL ACCESSORIES SHOWN PER MANUFACTURER'S RECOMMENDATIONS.
3. PROVIDE WITH CLOSET FLANGE AND EXTRA WAX RING.



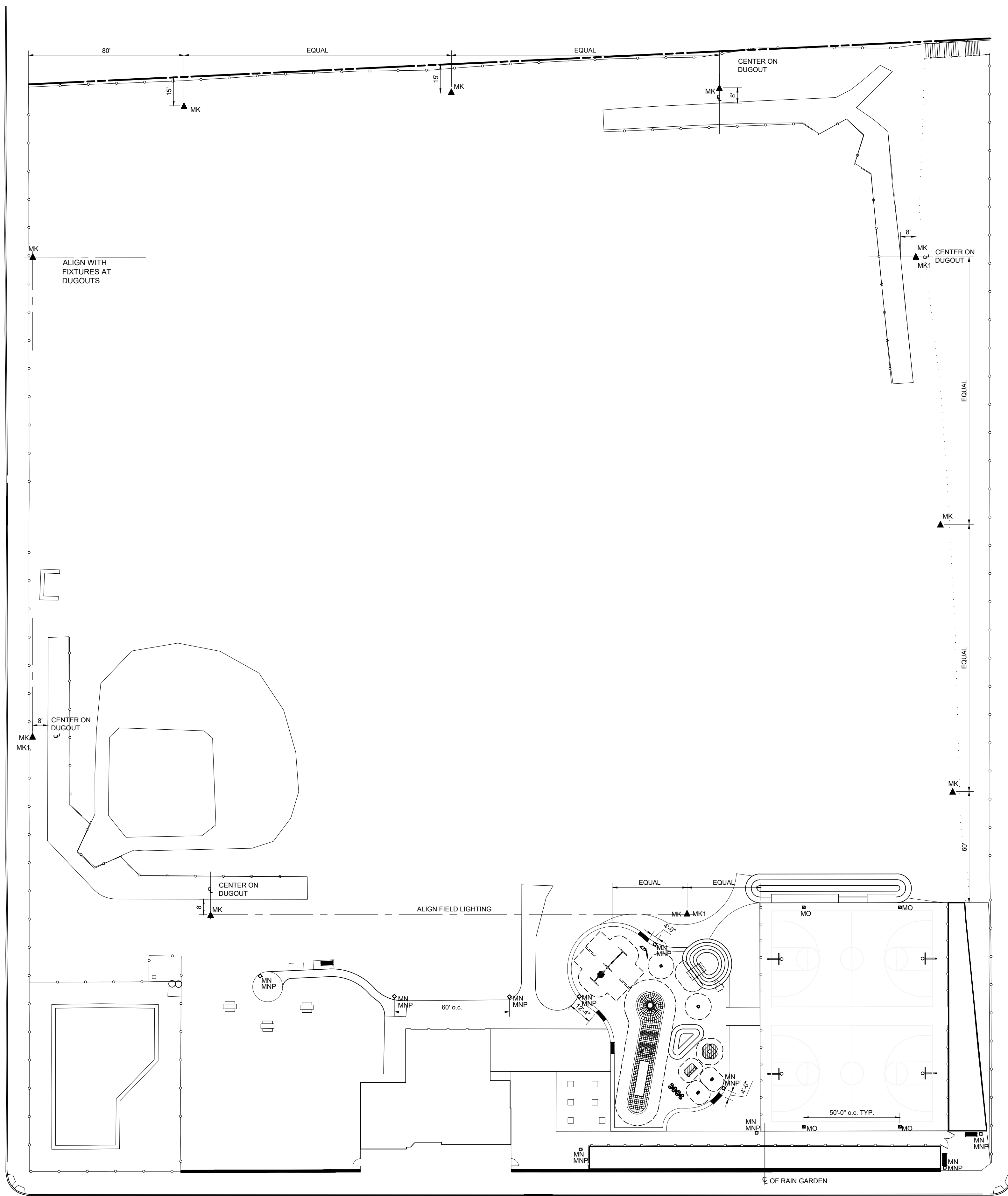
SHEET TITLE:
PLUMBING RISER DIAGRAM AND SCHED

REV	DATE	DESCRIPTION

SCALE:
 AS NOTED

DATE: 08/15/2022 DRAWN BY: xx
 CHECKED BY: xx

SHEET NUMBER:



SITE AND FIELD FIXTURE SCHEDULE

Type	Description	Manufacturer	Model	Code	Wattage	Voltage	Lamp	CCT	Control	Finish	Location	Notes
MK3	Field Light	Cooper Lighting	Ephesus	AF-750-3-40	750	Check w/MEP	LED	4000K	On/Off; Time Clock	Black Matte	Field	See Cooper Lighting Photometry report for location and quantity on each pole.
MK4	Field Light	Cooper Lighting	Ephesus	AF-750-4-40	750	Check w/MEP	LED	4000K	On/Off; Time Clock	Black Matte	Field	See Cooper Lighting Photometry report for location and quantity on each pole.
MK5	Field Light	Cooper Lighting	Ephesus	AF-750-5-40	750	Check w/MEP	LED	4000K	On/Off; Time Clock	Black Matte	Field	See Cooper Lighting Photometry report for location and quantity on each pole.
MKP	Field Light Pole 55'	TBD	TBD	TBD	n/a	n/a	n/a	4000K	n/a	Black Matte	Field	Engineer to determine specifications in coordination with Lighting Designer.
MN	Pedestrian Scale Walkway—Single Head	Selux	Discera	DSC4L-R3-MP5 30-40-TBD-BL-TBD-H5-MS	48	Check w/MEP	LED	4000K	Dimming; Photosensor	Black	Exterior Walkways	Engineer to coordinate specifications with Lighting Designer.
MNP	Pedestrian Scale Walkway Pole 14'	Selux	Discera	TBD-14-BL-TB D	n/a	Check w/MEP	LED	4000K	Dimming; Photosensor	Black	Exterior Walkways	Engineer to determine specifications in coordination with Lighting Designer.
MO1	Basketball Court Light	Cooper Lighting	Ephesus	AF-550-4-40	550	Check w/MEP	LED	4000K	On/Off; Time Clock	Black Matte	Basketball Court	See Cooper Lighting Photometry report for location and quantity on each pole.
MO2	Basketball Court Light	Cooper Lighting	Ephesus	AF-550-5-40	550	Check w/MEP	LED	4000K	On/Off; Time Clock	Black Matte	Basketball Court	See Cooper Lighting Photometry report for location and quantity on each pole.
MOP	Basketball Court Light Pole 30'	TBD	TBD	TBD	n/a	n/a	n/a	n/a	n/a	Black Matte	Basketball Court	Engineer to determine specifications in coordination with Lighting Designer.

NOTES:

- CONTRACTOR TO PROVIDE THE MANUFACTURER ANY REQUIREMENTS FOR FACTORY INSTALLED WHIPS.
- FIXTURE TO BE PROVIDED WITH ALL NECESSARY POWER SUPPLIES, FEEDS, CABLE, DRIVERS, ACCESSORIES AND MOUNTING EQUIPMENT AS RECOMMENDED BY MANUFACTURER.
- CONTRACTOR TO CONFIRM ALL LIGHTING FIXTURE CATALOG NUMBERS WITH LIGHTING DESIGNER BEFORE ORDERING.

SITE AND FIELD LIGHTING LEGEND

MK	▲	POLE-MOUNTED 8 HEAD 'LIGHTS-ON-POLES'
MK1	▲	NIGHTTIME SAFETY LIGHT
MN	□	PEDESTRIAN SCALE WALKWAY- SINGLE HEAD ON 12' POLES
MNP	□	WALKWAY LIGHT POLE 12'
MO	■	POLE-MOUNTED 'COURT LIGHT'

NOTES:

- MN FIXTURES ARE TO BE INSTALLED IN RELATION TO BENCH SEATING.
- MK POLE SPECIFICATION TO BE DETERMINED.
- MJ FIXTURES ARE TO BE LOCATED IN RELATION TO THE NEAR FENCE POSTS.

SITE AND FIELD LIGHTING NOTES

- THERE WILL BE NO LIGHTING FIXTURE SUBSTITUTIONS, DELETIONS, OR ADDITIONS WITHOUT APPROVAL OF LIGHTING DESIGNER.
- ALL LIGHTING FIXTURES BROUGHT TO THE SITE MUST BE LABELED AND ACCOMPANIED BY A BILL OF SALE FROM THE ELECTRICAL DISTRIBUTOR OR MANUFACTURER.
- CONTRACTOR TO NOTIFY LIGHTING DESIGNER OF ANY DISCREPANCIES OF EXISTING CONDITIONS PRIOR TO BEGINNING, OR CONTINUING CONDITIONS, THAT MAY CONFLICT WITH LIGHTING INSTALLATION AND CONSTRUCTION ACTIVITIES.
- CONTRACTOR TO CONFIRM ALL LIGHTING FIXTURE CATALOG NUMBERS WITH LIGHTING DESIGNER BEFORE ORDERING.
- CONTRACTOR SHALL COORDINATE WITH THE ELECTRICAL ENGINEER (MEP) BEFORE REMOVING OR REPLACING ANY ELECTRICAL WIRING OR CONDUITS.
- CONTRACTOR TO REFER TO CIVIL AND ELECTRICAL ENGINEERING DRAWINGS FOR BOLLARD, FIELD, AND SITE LIGHTING POLE FOUNDATION CONSTRUCTION.
- LIGHTING DESIGNER TO REVIEW AND APPROVE ALL LIGHTING FIXTURES ON-SITE. LIGHTING DESIGNER RESERVES THE RIGHT TO REJECT ANY LIGHTING FIXTURE IF DEEMED DAMAGED OR STRUCTURALLY AND FUNCTIONALLY COMPROMISED.
- CONTRACTOR TO PROVIDE ALL NECESSARY POWER SUPPLIES, FEEDS, CABLE, DRIVERS, ACCESSORIES AND MOUNTING EQUIPMENT AS RECOMMENDED BY MANUFACTURER.
- CONTRACTOR TO PROVIDE THE MANUFACTURER WITH ANY REQUIREMENTS FOR FACTORY INSTALLED WHIPS, POWER SUPPLIES, ACCESSORIES, AND ANY CONFIGURATIONS NECESSARY FOR PROPER INSTALLATION.
- CONTRACTOR WILL ENSURE INSTALLED LIGHTING FIXTURE ORIENTATION IS CORRECTLY AIMED FOR THE TARGET AREA.
- ELECTRICAL CONTRACTOR SHALL USE THE FIELD AND BASKETBALL COURT LIGHTING FIXTURES (EPHESUS) BEING HELD BY COLONIAL ELECTRIC ON BEHALF OF CITY OF PHILADELPHIA PARKS AND RECREATION
- MEP TO COORDINATE WITH LIGHTING DESIGNER ON WHICH SPECIFIED LIGHTING FIXTURES ARE TO BE USED FOR EMERGENCY LIGHTING.
- MEP TO COORDINATE WITH LIGHTING DESIGNER ON THE CONTROL SYSTEM FOR ALL LIGHTING FIXTURES.
- CONTRACTOR SHALL REMOVE AND STORE, IN A PRE-APPROVED LOCATION, EXISTING LIGHTING FIXTURES AND LAMPS (BULBS).
- CONTRACTOR IS RESPONSIBLE FOR REMOVING EXISTING LIGHTING FIXTURES IN A MANNER THAT ENSURES THE FIXTURES REMAIN IN WORKING CONDITION, AND WILL COORDINATE THE OFF-SITE DISPOSAL AND/OR STORAGE WITH THE LIGHTING DESIGNER IN ACCORDANCE WITH THE OWNER'S INTENTIONS AND LOCAL CODES AND LAWS.
- THE FIELD LIGHTING FIXTURE LAYOUT WAS CONSTRUCTED BY MANUFACTURER (COOPER LIGHTING)—COOPER LIGHTING PHOTOMETRY REPORT—IN COOPERATION WITH THE LIGHTING DESIGNER AND BASED ON LIGHTING FIXTURES THAT ARE IN PHILADELPHIA PARKS AND RECREATION'S CACHE OF EPHESUS BRAND FIXTURES WHICH ARE NOT THE LIGHTING DESIGNER'S RECOMMENDED FIXTURE FOR THIS APPLICATION.
- CONTRACTOR SHALL REFER TO COOPER LIGHTING PHOTOMETRY REPORT, AND COORDINATE WITH LIGHTING DESIGNER, FOR LOCATION OF EPHESUS LIGHTING FIXTURES AT THE FIELD AND BASKETBALL COURT POLE LOCATIONS.
- CONTRACTOR SHALL FOLLOW FIELD AND BASKETBALL COURT LIGHTING FIXTURE AIMING ANGLES SPECIFIED IN COOPER LIGHTING PHOTOMETRY REPORT AND COORDINATE WITH LIGHTING DESIGNER ON ANY DEVIATION FROM ANGLES SPECIFIED.
- ELECTRICAL CONTRACTOR MUST COORDINATE WITH CITY OF PHILADELPHIA PARKS AND RECREATION ELECTRICAL DEPARTMENT REGARDING THE PREPARATION AND INSTALLATION OF FIELD AND BASKETBALL COURT LIGHTING FIXTURES (EPHESUS). FIXTURES MUST BE INSTALLED AS PER CITY OF PHILADELPHIA PARKS AND RECREATION ELECTRICAL DEPARTMENT SPECIFICATIONS.

CLIENT:
 PHILADELPHIA PARKS & RECREATION
Rebuild PHILADELPHIA

PROJECT NAME & ADDRESS:
ZIEHLER PLAYGROUND & RECREATION CENTER
 200-64 E. OLNEY AVENUE
 PHILADELPHIA, PA 19120

PROJECT NUMBER:
16640E-01-02

PRIME CONSULTANT (LANDSCAPE ARCHITECTURE):
SALT DESIGN STUDIO
 LANDSCAPE ARCHITECTURE
 PLANNING & URBAN DESIGN
 161 LEVERINGTON AVE, SUITE 1005
 PHILADELPHIA, PA 19127
 www.saltdesignstudio.com

CIVIL ENGINEERING:
 MELIORA DESIGN
 259 MORGAN STREET
 PHOENIXVILLE, PA 19360
 www.melioradesign.com

ARCHITECTURE:
 IAN SMITH DESIGN GROUP
 322 E. THOMPSON STREET
 PHILADELPHIA, PA 19125
 www.is-dg.com

LIGHTING DESIGN:
 MILLER DESIGN GROUP
 www.millerdesigngrouplighting.com

MEP DESIGN:
 MARK ULTRICK ENGINEERS, INC.
 622 COOPER STREET, #200
 CAMDEN, NJ 08102
 www.markultrick.com

STRUCTURAL ENGINEERING:
 D'HUY ENGINEERING, INC.
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 www.dhuy.com

ISSUE FOR BIDDING

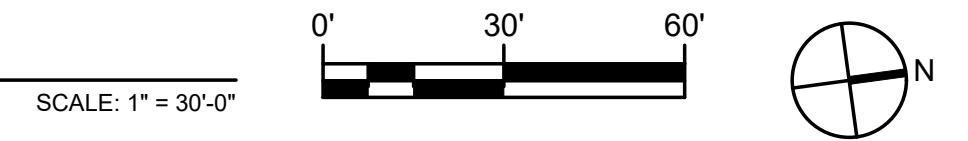
FIELD & SITE LIGHTING PLAN

REV	DATE	DESCRIPTION
RMD	07/15/2021	REV. SITE LIGHTING PLAN
RMD	08/03/2021	REV. SITE LIGHTING PLAN

SCALE: AS NOTED
 DATE: 08/15/2022 DRAWN BY: xx
 SHEET NUMBER: CHECKED BY: xx

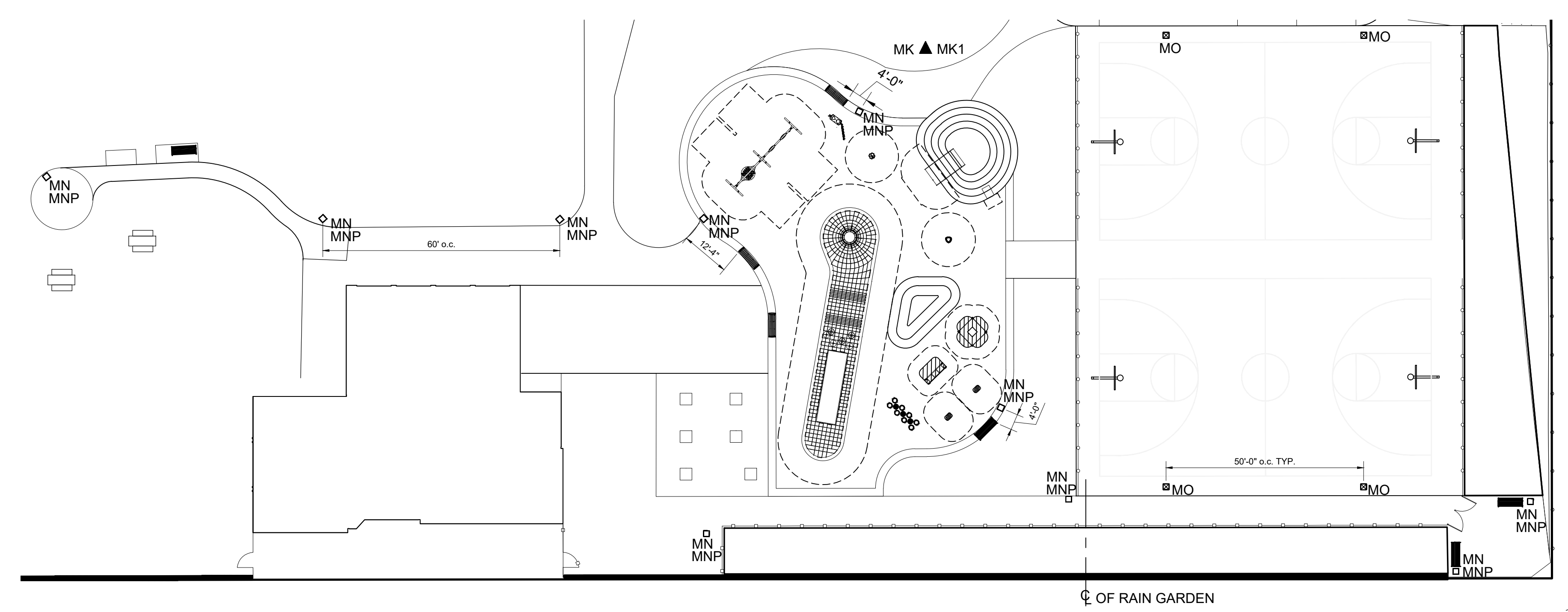
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1 FIELD AND SITE LIGHTING PLAN



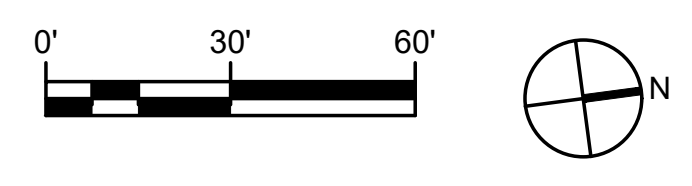
SITE AND FIELD LIGHTING NOTES

- There will be no lighting fixture substitutions, deletions, or additions without approval of Lighting Designer.
- All lighting fixtures brought to the site must be labeled and accompanied by a bill of sale from the electrical distributor or manufacturer.
- Contractor to notify Lighting Designer of any discrepancies of existing conditions prior to beginning, or continuing conditions, that may conflict with lighting installation and construction activities.
- Contractor to confirm all lighting fixture catalog numbers with Lighting Designer before ordering.
- Contractor shall coordinate with the Electrical Engineer (MEP) before removing or replacing any electrical wiring or conduits.
- Contractor to refer to Civil and Electrical Engineering drawings for bollard, field, and site lighting pole foundation construction.
- Lighting Designer to review and approve all lighting fixtures on-site. Lighting Designer reserves the right to reject any lighting fixture if deemed damaged or structurally and functionally compromised.
- Contractor to provide all necessary power supplies, feeds, cable, drivers, accessories and mounting equipment as recommended by manufacturer.
- Contractor to provide the manufacturer with any requirements for factory installed whips, power supplies, accessories, and any configurations necessary for proper installation.
- Contractor will ensure installed lighting fixture orientation is correctly aimed for the target area.
- Electrical Contractor shall use the field and basketball court lighting fixtures (Ephesus) being held by Colonial Electric on behalf of City of Philadelphia Parks and Recreation
- MEP to coordinate with Lighting Designer on which specified lighting fixtures are to be used for emergency lighting.
- MEP to coordinate with Lighting Designer on the control system for all lighting fixtures.
- Contractor shall remove and store, in a pre-approved location, existing lighting fixtures and lamps (bulbs).
- Contractor is responsible for removing existing lighting fixtures in a manner that ensures the fixtures remain in working condition, and will coordinate the off-site disposal and/or storage with the Lighting Designer in accordance with the owner's intentions and local codes and laws.
- The Field Lighting fixture layout was constructed by manufacturer (Cooper Lighting)--Cooper Lighting Photometry report--in cooperation with the Lighting Designer and based on lighting fixtures that are in Philadelphia Parks and Recreation's cache of Ephesus brand fixtures which are not the Lighting Designer's recommended fixture for this application.
- Contractor shall refer to Cooper Lighting Photometry report, and coordinate with Lighting Designer, for location of Ephesus lighting fixtures at the Field and Basketball Court pole locations.
- Contractor shall follow Field and Basketball Court lighting fixture aiming angles specified in Cooper Lighting Photometry report and coordinate with Lighting Designer on any deviation from angles specified.
- Electrical Contractor must coordinate with City of Philadelphia Parks and Recreation electrical department regarding the preparation and installation of field and basketball court lighting fixtures (Ephesus). Fixtures must be installed as per City of Philadelphia Parks and Recreation electrical department specifications.



1 SITE LIGHTING PLAN

SCALE: 1" = 20'-0"



Type	Description	Manufacturer	Model	Code	Wattage	Voltage	Lamp	CCT	Control	Finish	Location	Notes
MK3	Field Light	Cooper Lighting	Ephesus	AF-750-3-40	750	Check w/MEP	LED	4000K	On/Off; Time Clock	Black Matte	Field	See Cooper Lighting Photometry report for location and quantity on each pole.
MK4	Field Light	Cooper Lighting	Ephesus	AF-750-4-40	750	Check w/MEP	LED	4000K	On/Off; Time Clock	Black Matte	Field	See Cooper Lighting Photometry report for location and quantity on each pole.
MK5	Field Light	Cooper Lighting	Ephesus	AF-750-5-40	750	Check w/MEP	LED	4000K	On/Off; Time Clock	Black Matte	Field	See Cooper Lighting Photometry report for location and quantity on each pole.
MKP	Field Light Pole 55'	TBD	TBD	TBD	n/a	n/a	n/a	4000K	n/a	Black Matte	Field	Engineer to determine specifications in coordination with Lighting Designer.
MN	Pedestrian Scale Walkway—Single Head	Selux	Discera	DSC4L-R3-MP5 30-40-TBD-BL-TBD-HS-MS	48	Check w/MEP	LED	4000K	Dimming; Photosensor	Black	Exterior Walkways	Engineer to coordinate specifications with Lighting Designer.
MNP	Pedestrian Scale Walkway Pole 14'	Selux	Discera	TBD-14-BL-TB D	n/a	Check w/MEP	LED	4000K	Dimming; Photosensor	Black	Exterior Walkways	Engineer to determine specifications in coordination with Lighting Designer.
MO1	Basketball Court Light	Cooper Lighting	Ephesus	AF-550-4-40	550	Check w/MEP	LED	4000K	On/Off; Time Clock	Black Matte	Basketball Court	See Cooper Lighting Photometry report for location and quantity on each pole.
MO2	Basketball Court Light	Cooper Lighting	Ephesus	AF-550-5-40	550	Check w/MEP	LED	4000K	On/Off; Time Clock	Black Matte	Basketball Court	See Cooper Lighting Photometry report for location and quantity on each pole.
MOP	Basketball Court Light Pole 30'	TBD	TBD	TBD	n/a	n/a	n/a	n/a	n/a	Black Matte	Basketball Court	Engineer to determine specifications in coordination with Lighting Designer.

SITE AND FIELD LIGHTING LEGEND	
MK ▲	POLE-MOUNTED 8 HEAD 'LIGHTS-ON-POLES'
MK1	NIGHTTIME SAFETY LIGHT
MN □	PEDESTRIAN SCALE WALKWAY-SINGLE HEAD ON 12' POLES
MNP □	WALKWAY LIGHT POLE 12'
MO □	POLE-MOUNTED 'COURT LIGHT'

- NOTES:
- MN FIXTURES ARE TO BE INSTALLED IN RELATION TO BENCH SEATING.
 - MK1 MAY BE CIRCUITED IN SERIES, CONTROLLED SEPARATELY FROM MK.
 - MK FIXTURE AND POLE SPECIFICATION TO BE DETERMINED.

- NOTES:
- CONTRACTOR TO PROVIDE THE MANUFACTURER ANY REQUIREMENTS FOR FACTORY INSTALLED WHIPS.
 - FIXTURE TO BE PROVIDED WITH ALL NECESSARY POWER SUPPLIES, FEEDS, CABLE, DRIVERS, ACCESSORIES AND MOUNTING EQUIPMENT AS RECOMMENDED BY MANUFACTURER.
 - CONTRACTOR TO CONFIRM ALL LIGHTING FIXTURE CATALOG NUMBERS WITH LIGHTING DESIGNER BEFORE ORDERING.

INTERIOR LIGHTING LEGEND

- MA
- MB1
- MC
- ME
- MF
- MF1
- MG
- MI
- ML
- MU
- MU1

SWITCH LEGEND

- OS
- TC
- S
- S_d
- S_{rgb}

SEE MEP DRAWINGS FOR LOCATION OF OCCUPANCY SENSOR AND TIMER CIRCUIT

INTERIOR LIGHTING NOTES

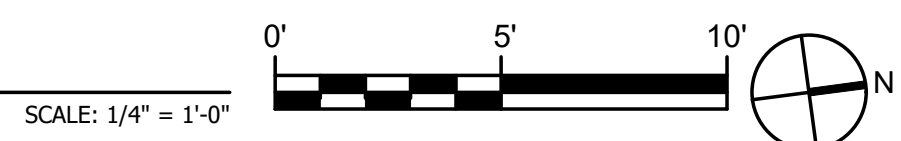
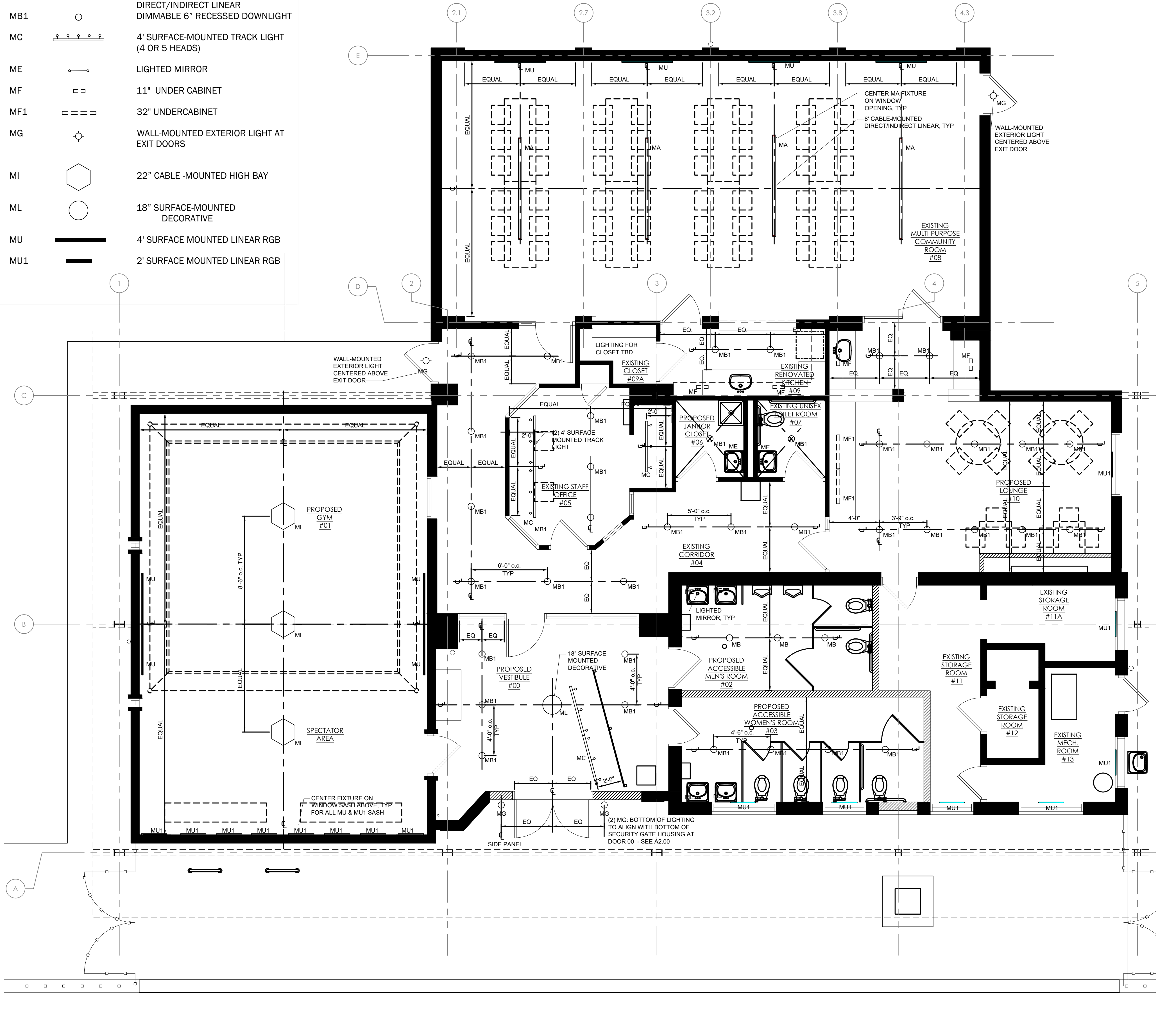
1. THERE WILL BE NO LIGHTING FIXTURE SUBSTITUTIONS, DELETIONS, OR ADDITIONS WITHOUT APPROVAL OF LIGHTING DESIGNER.
2. ALL LIGHTING FIXTURES BROUGHT TO THE SITE MUST BE LABELED AND ACCOMPANIED BY A BILL OF SALE FROM THE ELECTRICAL DISTRIBUTOR OR MANUFACTURER.
3. CONTRACTOR TO NOTIFY LIGHTING DESIGNER OF ANY DISCREPANCIES OF EXISTING CONDITIONS PRIOR TO BEGINNING, OR CONTINUING CONDITIONS, THAT MAY CONFLICT WITH LIGHTING INSTALLATION AND CONSTRUCTION ACTIVITIES.
4. CONTRACTOR TO CONFIRM ALL LIGHTING FIXTURE CATALOG NUMBERS WITH LIGHTING DESIGNER BEFORE ORDERING.
5. CONTRACTOR SHALL COORDINATE WITH THE ELECTRICAL ENGINEER (MEP) BEFORE REMOVING OR REPLACING ANY ELECTRICAL WIRING OR CONDUITS.
6. CONTRACTOR TO REFER TO CIVIL AND ELECTRICAL ENGINEERING DRAWINGS FOR BOLLARD, FIELD, AND SITE LIGHTING POLE FOUNDATION CONSTRUCTION.
7. LIGHTING DESIGNER TO REVIEW AND APPROVE ALL LIGHTING FIXTURES ON-SITE. LIGHTING DESIGNER RESERVES THE RIGHT TO REJECT ANY LIGHTING FIXTURE IF DEEMED DAMAGED OR STRUCTURALLY AND FUNCTIONALLY COMPROMISED.
8. CONTRACTOR TO PROVIDE ALL NECESSARY POWER SUPPLIES, FEEDS, CABLE, DRIVERS, ACCESSORIES AND MOUNTING EQUIPMENT AS RECOMMENDED BY MANUFACTURER.
9. CONTRACTOR TO PROVIDE THE MANUFACTURER WITH ANY REQUIREMENTS FOR FACTORY INSTALLED WHIPS, POWER SUPPLIES, ACCESSORIES, AND ANY CONFIGURATIONS NECESSARY FOR PROPER INSTALLATION.
10. CONTRACTOR WILL ENSURE INSTALLED LIGHTING FIXTURE ORIENTATION IS CORRECTLY AIMED FOR THE TARGET AREA.
11. ELECTRICAL CONTRACTOR SHALL USE THE FIELD AND BASKETBALL COURT LIGHTING FIXTURES (EPHESUS) BEING HELD BY COLONIAL ELECTRIC ON BEHALF OF CITY OF PHILADELPHIA PARKS AND RECREATION.
12. MEP TO COORDINATE WITH LIGHTING DESIGNER ON WHICH SPECIFIED LIGHTING FIXTURES ARE TO BE USED FOR EMERGENCY LIGHTING.
13. MEP TO COORDINATE WITH LIGHTING DESIGNER ON THE CONTROL SYSTEM FOR ALL LIGHTING FIXTURES.
14. CONTRACTOR SHALL REMOVE AND STORE, IN A PRE-APPROVED LOCATION, EXISTING LIGHTING FIXTURES AND LAMPS (BULBS).
15. CONTRACTOR IS RESPONSIBLE FOR REMOVING EXISTING LIGHTING FIXTURES IN A MANNER THAT ENSURES THE FIXTURES REMAIN IN WORKING CONDITION, AND WILL COORDINATE THE OFF-SITE DISPOSAL AND/OR STORAGE WITH THE LIGHTING DESIGNER IN ACCORDANCE WITH THE OWNER'S INTENTIONS AND LOCAL CODES AND LAWS.

INTERIOR FIXTURE SCHEDULE

Interior Lighting Fixture Schedule	Type	Description	Manufacturer	Model	Code	Voltage	Control	CCT	CFI	Finish	Location	Notes
MA	8' Linear Cable Mounted, Suspended	Signify	Ledalite Boldfly	7806-LA-C-Q-G-08 7-D-5-W-N-S2, TBD		120	Dimming	4000K	90	Standard White	Multi-purp use room	See drawings for mounting and suspension information. Coordinate with LE and MEP for control.
MB1	5' Recessed Downlight w/ Dimming	Fluxorx	PORTAL	TC1-R05-D-K2-W-W-W1-9-4D-A-L1-M (TC1-R05)		120	Dimming	3500K	90	White Powderco #1	Lounge	Coordinate with MEP on dimming control system.
MC	Track Lighting with Cylinder Spot Light	Bruck	GXS Track Spot	35040-13LM-30K-90-50-120-ELV-WH ECDWH-35040/08/09WH		120	Dimming	3500K	90	White	Office	
MC1	8' Track	Bruck/ECO	Surface Mounted	3706ES-208-wh; 3706ES-41-wh		120	n/a			White	Office; Entrance	
MC2	4' Track	Bruck/ECO	Surface Mounted	3706ES-204-wh; 3706ES-41-wh		120	n/a			White	Office	
MC3	Track Lighting with Cylinder Spot Light	Bruck	GXS Track Spot	35040-13LM-30K-90-50-120-ELV-WH ECDWH-35040/08/09WH		120	Dimming; Time Clock	3500K	90	White	Entrance	
ME	Front Lighted Mirror	Paris	Surface Mounted	HARMX24330000		110 input	Dimming; MotionSensor	6000K	90	Standard	Bathrooms	Contractor to install per manufacturer instructions. Owner shall perform cleaning/maintenance per manufacturer instructions to ensure product longevity.
MF	Under Cabinet LED	Nora Lighting	Edge-Lit Under Cabinet	NUD-8811/30-WH 13-1/4"		120	Dimming	3000K	90	White	Kitchen; Lounge	Surface mounted under cabinet
MF1	Under Cabinet LED	Nora Lighting	Edge-Lit Under Cabinet	NUD-8832/30-WH 13-3/4"		120	Dimming	3000K	90	White	Lounge	Surface mounted under cabinet; multiple fixtures jumpered together; dimming
MI	LED Pendant High Bay	EATON	VHB	VHB-9-W-UV-184 0-CD-1		120	Dimming	3500K	80	White	Above Exterior Doors	Cable mounted as per drawings. Dimming.
MG	Exterior Surface Mounted Wall Pack	Cooper Lighting	Lumark	XTOR2B-W-WT-PC 1		120	Photosens or	4000K	70	White	Gym	
ML	LED 18" Surface Mounted	Modern Forms	Metropolis	FM-16818		120	Dimming; Time Clock	3000K	90	Brushed Nickel	Entrance	Surface mounted decorative for entrance lobby.
MU	LED RGBW Linear Surface Mounted	Lumini	Kendo M RGB & RGBW	KM-48-RGBW-MD-F-F-C-WH-TBD PCCM-TBD		12-24 V	Dimming; Time Clock	RGBW	NA	White	Windows	Dimming power supply to be determined by EE contractor. Power feed position to be selected by the EE contractor.
MU1	LED RGBW Linear Surface Mounted	Lumini	Kendo M RGB & RGBW	KM-24-RGBW-MD-F-F-C-WH-TBD PCCM-TBD		12-24 V	Dimming; Time Clock	RGBW	NA	White	Windows	Dimming power supply to be determined by EE contractor. Power feed position to be selected by the EE contractor.

- NOTES:
1. CONTRACTOR TO PROVIDE THE MANUFACTURER ANY REQUIREMENTS FOR FACTORY INSTALLED WHIPS.
 2. FIXTURE TO BE PROVIDED WITH ALL NECESSARY POWER SUPPLIES, FEEDS, CABLE, DRIVERS, ACCESSORIES AND MOUNTING EQUIPMENT AS RECOMMENDED BY MANUFACTURER.
 3. CONTRACTOR TO CONFIRM ALL LIGHTING FIXTURE CATALOG NUMBERS WITH LIGHTING DESIGNER BEFORE ORDERING.

1 INTERIOR LIGHTING PLAN



PROJECT NAME & ADDRESS:
ZIEHLER PLAYGROUND & RECREATION CENTER
200-64 E. OLNEY AVENUE
PHILADELPHIA, PA 19120

PROJECT NUMBER:
16640E-01-02



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ARCHITECTURE:
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www.is-dg.com

LIGHTING DESIGN:
MILLER DESIGN GROUP
www.millerdesigngrouplighting.com

MEP DESIGN:
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STRUCTURAL ENGINEERING:
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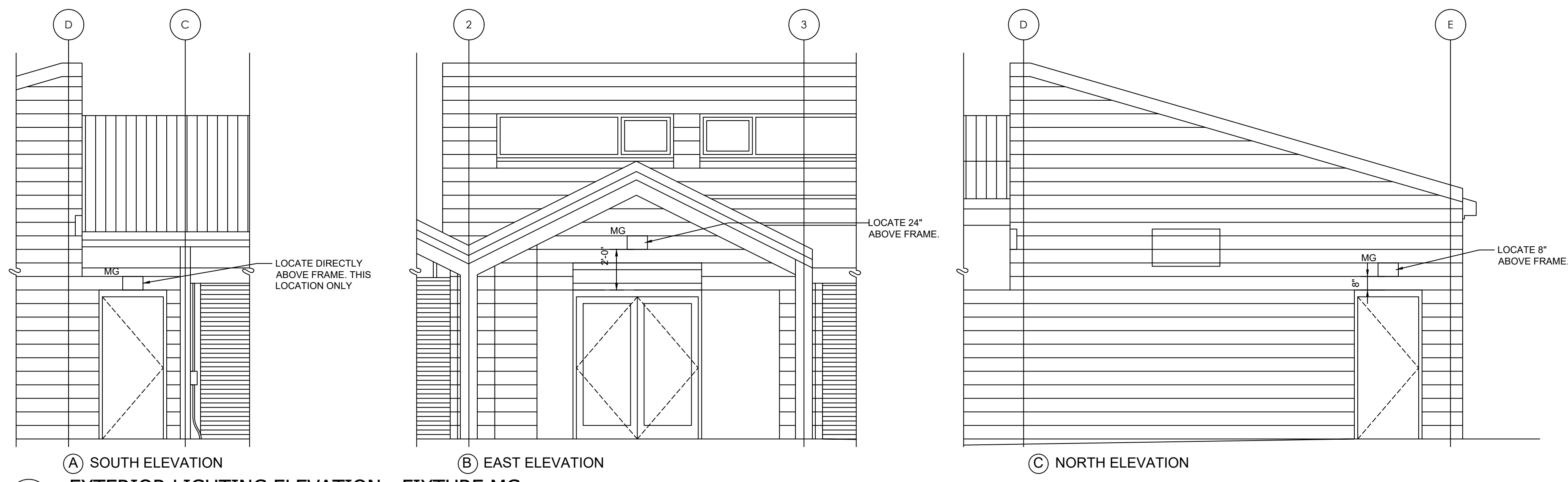
ISSUE FOR BIDDING

SCALE:
AS NOTED
DATE:
08/15/2022
DRAWN BY: xx
CHECKED BY: xx
SHEET NUMBER:

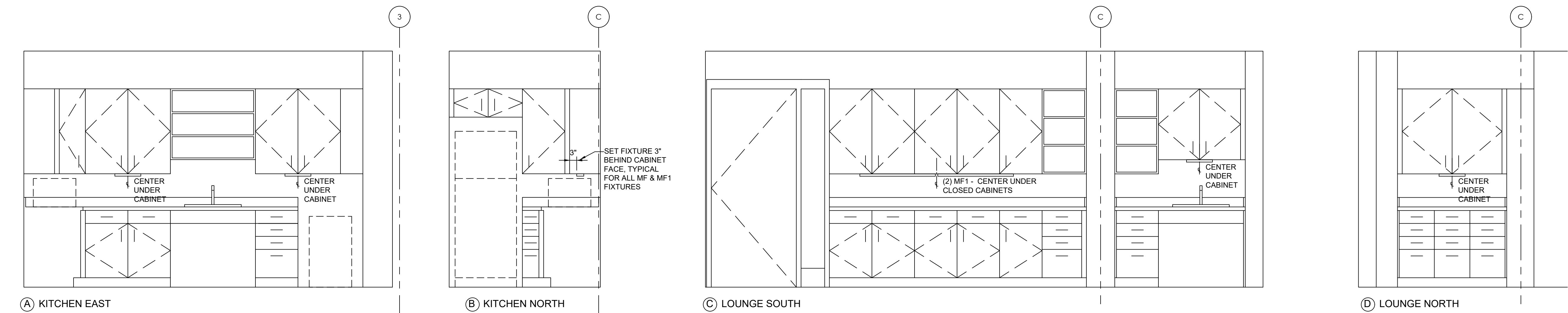
INTERIOR LIGHTING PLAN

REV	DATE	DESCRIPTION

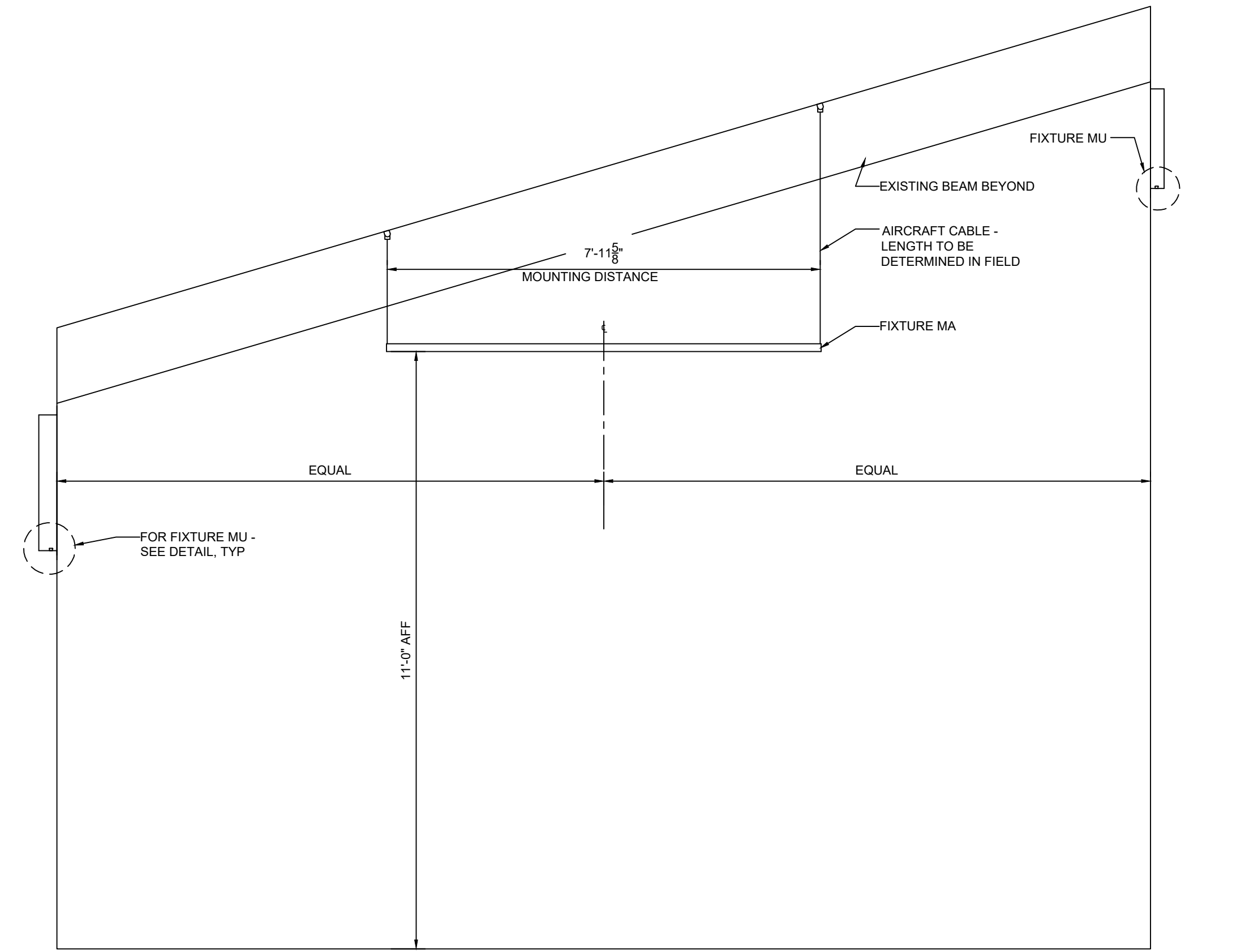
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DATE:
08/15/2022
DRAWN BY: xx
CHECKED BY: xx
SHEET NUMBER:
EL-103
SALT DESIGN STUDIO FILE NO:
2003



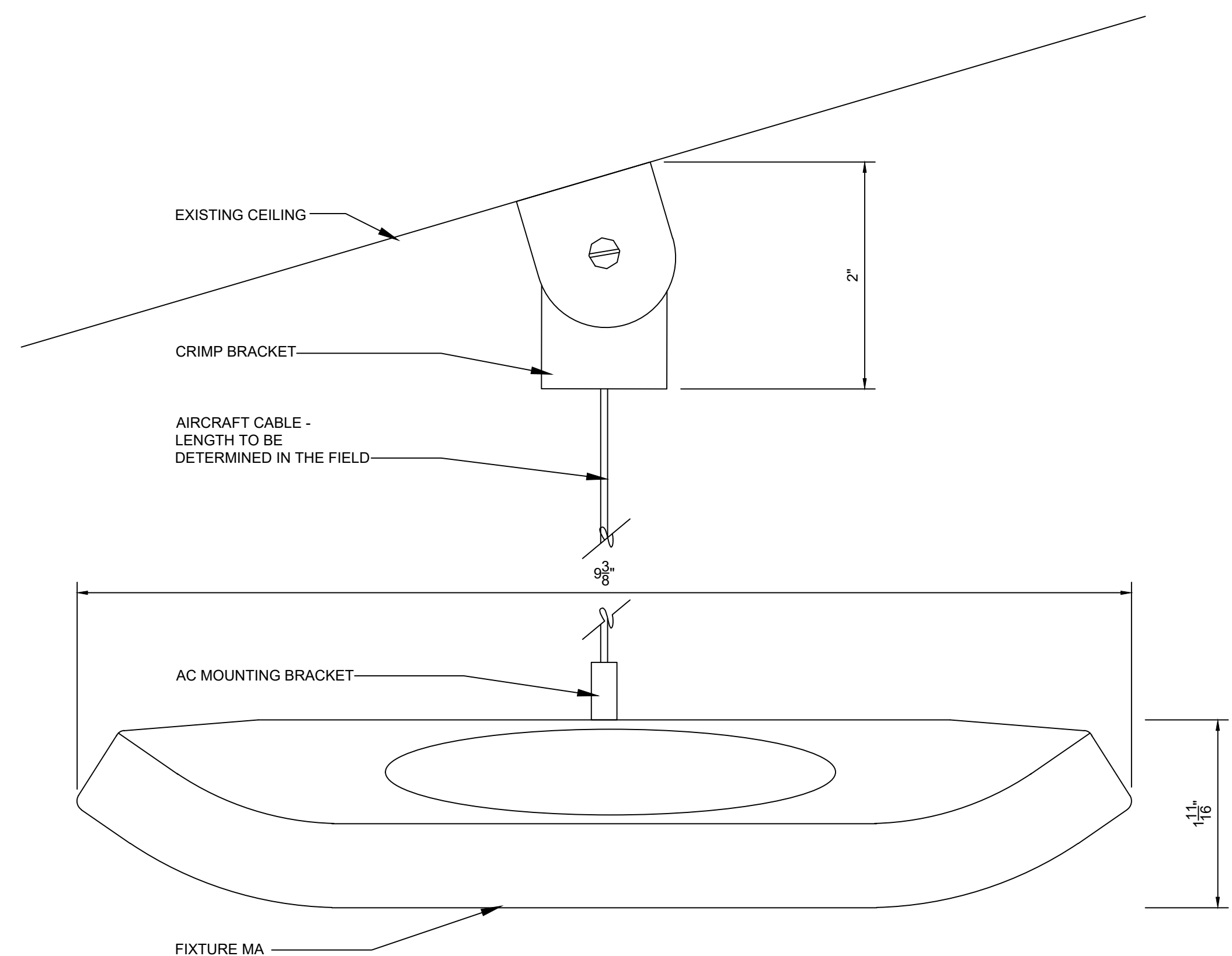
1 EXTERIOR LIGHTING ELEVATION - FIXTURE MG SCALE: 1/4" = 1'-0"



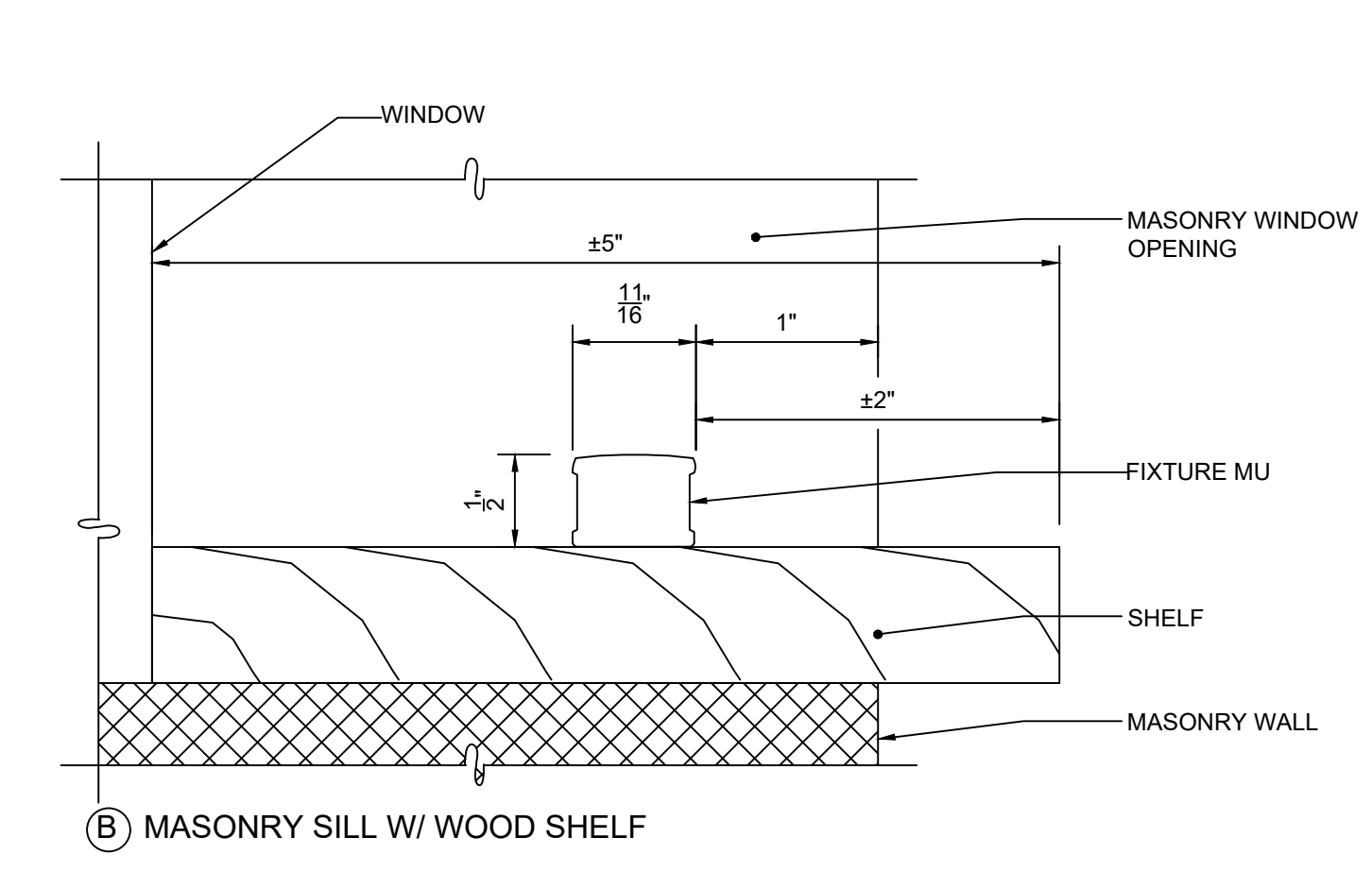
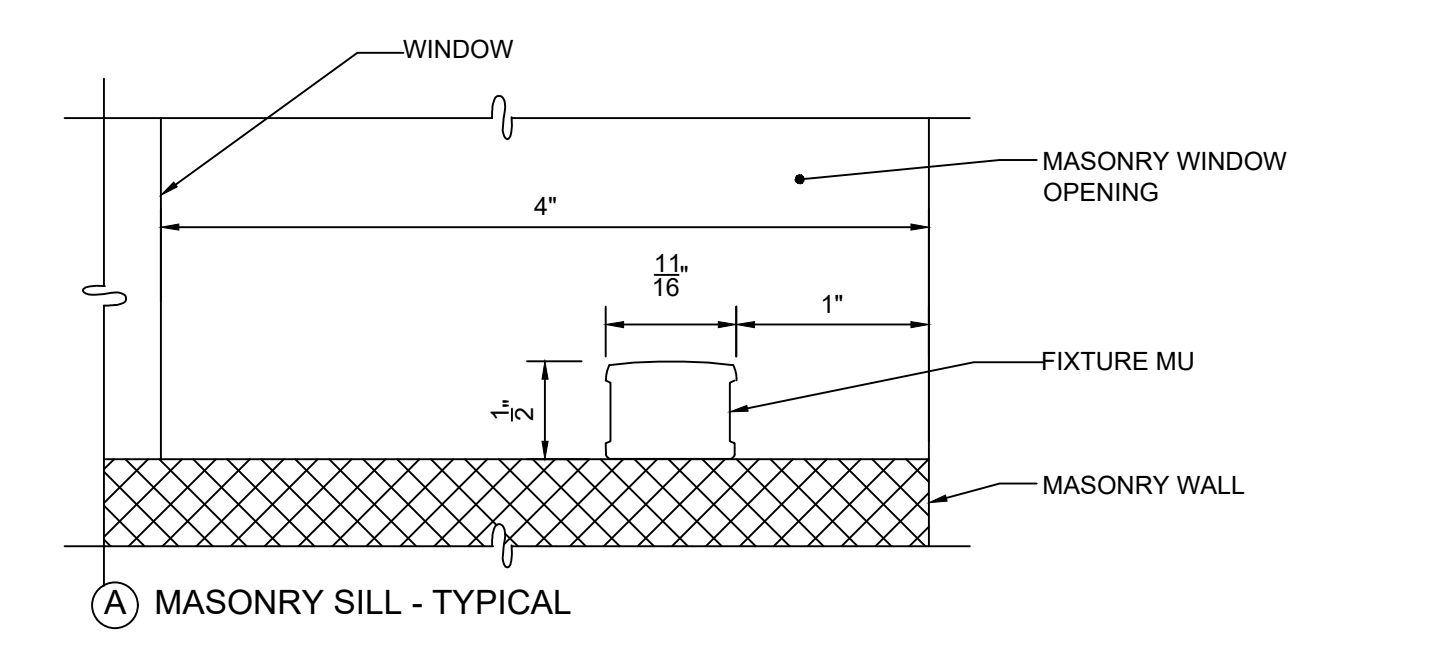
2 INTERIOR LIGHTING ELEVATIONS - FIXTURES MF & MF1 SCALE: 1/2" = 1'-0"



3 MULTIPURPOSE ROOM INTERIOR LIGHTING ELEVATION - FIXTURES MA & MU SCALE: 1/2" = 1'-0"



4 FIXTURE MA DETAIL SCALE: 1'-0" = 1'-0"



5 FIXTURE MU DETAIL SCALE: 1'-0" = 1'-0"

PHILADELPHIA PARKS & RECREATION
Rebuild PHILADELPHIA
 PROJECT NAME & ADDRESS
ZIEHLER PLAYGROUND & RECREATION CENTER
 200-64 E. OLNEY AVENUE
 PHILADELPHIA, PA 19120
 PROJECT NUMBER
16640E-01-02
 PRIME CONSULTANT / LANDSCAPE ARCHITECTURE
SALT
 DESIGN STUDIO
 LANDSCAPE ARCHITECTURE
 PLANNING & URBAN DESIGN
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DHUY ENGINEERING, INC.
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 BETHLEHEM, PA 18018
 www.dhuy.com

DRAWING PHASE
ISSUE FOR BIDDING

SEAL:
 SHEET TITLE:
LIGHTING DETAILS
 REV DATE DESCRIPTION
 SCALE:
 AS NOTED
 DATE: 08/15/2022 DRAWN BY: xx CHECKED BY: xx
 SHEET NUMBER:
EL-501
 SALT DESIGN STUDIO FILE NO.:
 2003

INTERIOR LIGHTING LEGEND

- MA
- MB1
- MC
- ME
- MF
- MF1
- MG
- MI
- ML
- MU
- MU1

SWITCH LEGEND

- OS
- TC
- S
- S_d
- S_{rgb}

SEE MEP DRAWINGS FOR LOCATION OF OCCUPANCY SENSOR AND TIMER CIRCUIT

INTERIOR LIGHTING NOTES

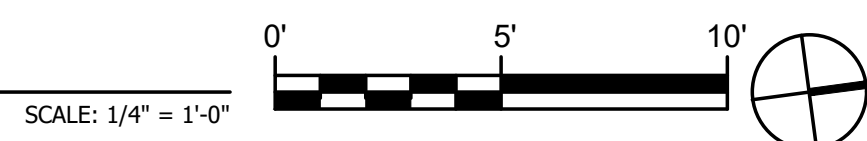
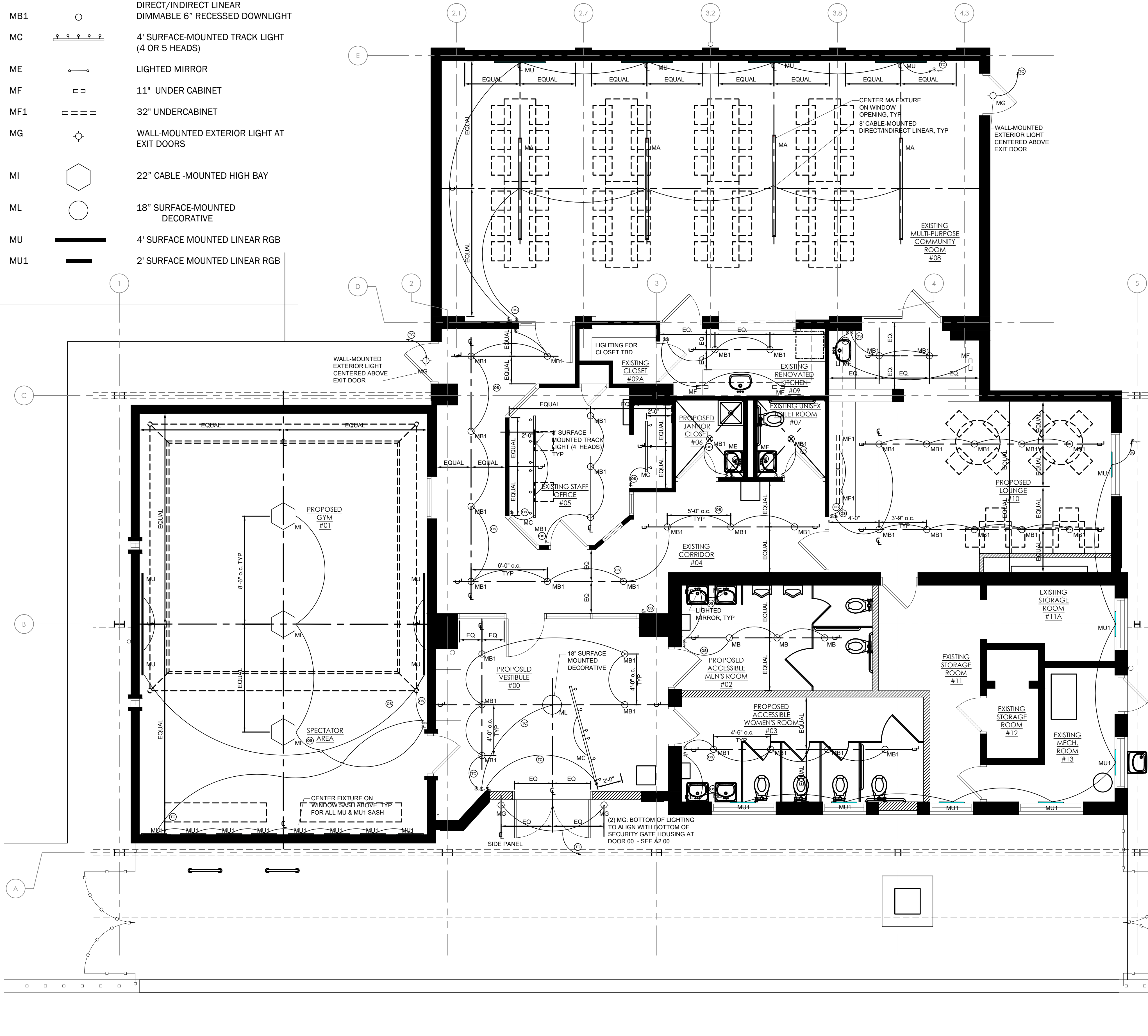
1. THERE WILL BE NO LIGHTING FIXTURE SUBSTITUTIONS, DELETIONS, OR ADDITIONS WITHOUT APPROVAL OF LIGHTING DESIGNER.
2. ALL LIGHTING FIXTURES BROUGHT TO THE SITE MUST BE LABELED AND ACCOMPANIED BY A BILL OF SALE FROM THE ELECTRICAL DISTRIBUTOR OR MANUFACTURER.
3. CONTRACTOR TO NOTIFY LIGHTING DESIGNER OF ANY DISCREPANCIES OF EXISTING CONDITIONS PRIOR TO BEGINNING, OR CONTINUING CONDITIONS, THAT MAY CONFLICT WITH LIGHTING INSTALLATION AND CONSTRUCTION ACTIVITIES.
4. CONTRACTOR TO CONFIRM ALL LIGHTING FIXTURE CATALOG NUMBERS WITH LIGHTING DESIGNER BEFORE ORDERING.
5. CONTRACTOR SHALL COORDINATE WITH THE ELECTRICAL ENGINEER (MEP) BEFORE REMOVING OR REPLACING ANY ELECTRICAL WIRING OR CONDUITS.
6. CONTRACTOR TO REFER TO CIVIL AND ELECTRICAL ENGINEERING DRAWINGS FOR BOLLARD, FIELD, AND SITE LIGHTING POLE FOUNDATION CONSTRUCTION.
7. LIGHTING DESIGNER TO REVIEW AND APPROVE ALL LIGHTING FIXTURES ON-SITE. LIGHTING DESIGNER RESERVES THE RIGHT TO REJECT ANY LIGHTING FIXTURE IF DEEMED DAMAGED OR STRUCTURALLY AND FUNCTIONALLY COMPROMISED.
8. CONTRACTOR TO PROVIDE ALL NECESSARY POWER SUPPLIES, FEEDS, CABLE, DRIVERS, ACCESSORIES AND MOUNTING EQUIPMENT AS RECOMMENDED BY MANUFACTURER.
9. CONTRACTOR TO PROVIDE THE MANUFACTURER WITH ANY REQUIREMENTS FOR FACTORY INSTALLED WHIPS, POWER SUPPLIES, ACCESSORIES, AND ANY CONFIGURATIONS NECESSARY FOR PROPER INSTALLATION.
10. CONTRACTOR WILL ENSURE INSTALLED LIGHTING FIXTURE ORIENTATION IS CORRECTLY AIMED FOR THE TARGET AREA.
11. ELECTRICAL CONTRACTOR SHALL USE THE FIELD AND BASKETBALL COURT LIGHTING FIXTURES (EPHESUS) BEING HELD BY COLONIAL ELECTRIC ON BEHALF OF CITY OF PHILADELPHIA PARKS AND RECREATION.
12. MEP TO COORDINATE WITH LIGHTING DESIGNER ON WHICH SPECIFIED LIGHTING FIXTURES ARE TO BE USED FOR EMERGENCY LIGHTING.
13. MEP TO COORDINATE WITH LIGHTING DESIGNER ON THE CONTROL SYSTEM FOR ALL LIGHTING FIXTURES.
14. CONTRACTOR SHALL REMOVE AND STORE, IN A PRE-APPROVED LOCATION, EXISTING LIGHTING FIXTURES AND LAMPS (BULBS).
15. CONTRACTOR IS RESPONSIBLE FOR REMOVING EXISTING LIGHTING FIXTURES IN A MANNER THAT ENSURES THE FIXTURES REMAIN IN WORKING CONDITION, AND WILL COORDINATE THE OFF-SITE DISPOSAL AND/OR STORAGE WITH THE LIGHTING DESIGNER IN ACCORDANCE WITH THE OWNER'S INTENTIONS AND LOCAL CODES AND LAWS.

INTERIOR FIXTURE SCHEDULE

Interior Lighting Fixture Schedule	Type	Description	Manufacturer	Model	Code	Voltage	Control	CCT	CRI	Finish	Location	Notes
MA	8' Cable Mounted, Suspended	8' Linear Cable Mounted, Suspended	Signify	Ledalite Softly	7806-LA-C-Q-G-08 7-D-5-W-N-S2, TBD	120	Dimming	4000K	80	Standard White	Multi-purpose room	See drawings for mounting and suspension information. Coordinate with LE and MEP for control.
MB1	5" Recessed Downlight w/ Dimming	5" Recessed Downlight w/ Dimming	Fluxus	PORTAL RECESSED 5.5" (TC1-405)	TC1-R05-D-K2-W-W-W1-9-40-A-L1-M	120	Dimming	3500K	90	White Powdercoated	Lounge	Coordinate with MEP on dimming control system.
MC	Track Lighting with Cylinder Spot Light	Track Lighting with Cylinder Spot Light	Bruck	GXS Track Spot	35040-33LM-30K-90-50-320-ELV-WH-ECOWH-35040/9/DWH	120	Dimming	3500K	90	White	Office	
MC1	8' Track	8' Track	Bruck/ECO	Surface Mounted	3706ES-208-wh, 3706ES-41-wh	120	n/a			White	Office Entrance	
MC2	4' Track	4' Track	Bruck/ECO	Surface Mounted	3706ES-204-wh, 3706ES-41-wh	120	n/a			White	Office	
MC3	Track Lighting with Cylinder Spot Light	Track Lighting with Cylinder Spot Light	Bruck	GXS Track Spot	35040-33LM-30K-90-50-320-ELV-WH-ECOWH-35040/9/DWH	120	Dimming, Time Clock	3500K	90	White	Entrance	
ME	Front Lighted Mirror	Front Lighted Mirror	Paris	Surface Mounted	HARMX2432000	110 input	Dimming, MotionSensor	6000K	90	Standard	Bathrooms	Contractor to install per manufacturer's instructions. Owner shall perform cleaning maintenance per manufacturer's instructions to ensure product longevity.
MF	Under Cabinet LED	Under Cabinet LED	Nora Lighting	Edge-L4 Under Cabinet	NUD-881/30-WH-13-3/4"	120	Dimming	3000K	90	White	Kitchen Lounge	Surface mounted under cabinet
MF1	Under Cabinet LED	Under Cabinet LED	Nora Lighting	Edge-L4 Under Cabinet	NUD-883/30-WH-13-3/4"	120	Dimming	3000K	90	White	Lounge	Surface mounted under cabinet; multiple fixtures jumpered together; dimming
MI	LED Pendant High Bay	LED Pendant High Bay	EATON	VHB	VHB-9-W-UV-184 0-CD-1	120	Dimming	3500K	80	White	Above Exterior Doors	Cable mounted as per drawings; dimming
MG	Exterior Surface Mounted Wall Pack	Exterior Surface Mounted Wall Pack	Cooper Lighting	Lumark Crestor™ LED Wall Pack	XTOR2B-W-WT-PC 1	120	Photosens or	4000K	70	White	Gym	
ML	LED 18" Surface Mounted	LED 18" Surface Mounted	Modern Forms	Metropolis	FM-16818	120	Dimming, Time Clock	3000K	90	Brushed Nickel	Entrance	Surface mounted decorative for entrance lobby.
MU	LED RGBW Linear Surface Mounted	LED RGBW Linear Surface Mounted	Kendo M	RGB & RGBW	KM-48-RGBW-MO-F-F-C-WH-TBD PCCM-TBD	12-24 V	Dimming, Time Clock	RGBW	NA	White	Windows	Dimming power supply to be determined by EE contractor. Power feed position to be selected by the EE contractor.
MU1	LED RGBW Linear Surface Mounted	LED RGBW Linear Surface Mounted	Kendo M	RGB & RGBW	KM-24-RGBW-MO-F-F-C-WH-TBD PCCM-TBD	12-24 V	Dimming, Time Clock	RGBW	NA	White	Windows	Dimming power supply to be determined by EE contractor. Power feed position to be selected by the EE contractor.

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1 INTERIOR LIGHTING CONTROL PLAN



PROJECT NAME & ADDRESS:
ZIEHLERY PLAYGROUND & RECREATION CENTER
200-64 E. OLNEY AVENUE
PHILADELPHIA, PA 19120

PROJECT NUMBER:
16640E-01-02



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CIVIL ENGINEERING:
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ARCHITECTURE:
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PHILADELPHIA, PA 19125
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LIGHTING DESIGN:
MILLER DESIGN GROUP
www.millerdesigngrouplighting.com

MEP DESIGN:
MARK ULTRICK ENGINEERS, INC.
622 COOPER STREET, #200
CAMDEN, NJ 08102
www.markultrick.com

STRUCTURAL ENGINEERING:
D'HUY ENGINEERING, INC.
1 EAST BROAD STREET, SUITE 310
BETHLEHEM, PA 18018
www.dhuy.com

ISSUE FOR BIDDING

INTERIOR LIGHTING CONTROLS PLAN

REV	DATE	DESCRIPTION

SCALE: AS NOTED
DATE: 08/15/2022
DRAWN BY: xx
CHECKED BY: xx

EL-502



PHOTOMETRIC DRAWINGS FOR:
**Ziehler Playground and Rec.
 Philadelphia, Pennsylvania**

Project #: 2101147
 8/31/2021
 2101147 r2.AGI

Prepared By:
EPHESUS SPORTS LIGHTING
 125 E JEFFERSON ST
 SYRACUSE NY 13202
 315-579-2873

This drawing represents expected light levels if the lighting system is correctly ordered and installed exactly as designed. Actual results may vary.

Photometric designs are light level calculations extracted from software models. Illumination software models are constructed using information provided to Cooper or mined from 3rd party satellite images and estimated reflectance values of the site. On-site deviations of site layout, structure locations and dimensions, luminaire locations and aiming, reflectance values, and obstructions will affect the actual light levels obtained.

Any obstructions in the light paths such as structural steel, HVAC ductwork, scoreboards, banners, trees, structures, or other items may affect illumination levels on the playing surface. Cooper Lighting is not responsible for deviations from design due to incorrect data provided such as mounting heights, location dimensions, reflectance values, or obstructions.

Unless otherwise noted, mounting heights and aiming points listed on photometric drawings are 3-dimensional coordinates (X, Y, Z) in feet relative to origin (0,0,0). Origin is normally center of playing area for symmetrical fields such as hockey/football, and back point of home plate for baseball/softball fields. Any variations of grade/elevation at base of pole locations relative to origin should be factored into pole or structure heights.

Buyer is responsible to verify photometric design meets all desired project specifications. Cooper Lighting is not responsible for any design considerations not submitted with the photometric design request and/or not listed as part of the Basis of Design, such as seating areas, warm-up zones, adjacent areas, etc.

ephesus
 125 EAST JEFFERSON STREET
 SYRACUSE, NEW YORK 13202
 PHONE: 315-579-2873
 WWW.EPHESUSLIGHTING.COM

LIGHTING DESIGN FOR:

Ziehler Playground and Rec
 Philadelphia, PA
 Multi-Sport Lighting Analysis
 Softball, Football, Basketball
 Using previously used Ephesus
 All Field products atop 55' and 30'
 poles.

MH: Varies
 Reflectances: None
 LLF: 0.95
 Calc Grid: 15' x 15'
 Notes:

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DRAWN
D Couch

CHECKED
D Couch

REVISION

PROJECT
2101147

Revision Notes:
 Due to selection of previously used lighting
 fixtures, Ephesus Lighting provides NO GUARANTEE as
 to performance of design or results in field
 - measured or subjective.

Page 1 of 8

NOTE:
 SEE ORIGINAL COOPER LIGHTING
 SUMMARY IN PROJECT
 DOCUMENTS.



PROJECT NAME & ADDRESS:
**ZIEHLER PLAYGROUND &
 RECREATION CENTER**

200-64 E. OLNEY AVENUE
 PHILADELPHIA, PA 19120

PROJECT NUMBER:
16640E-01-02

PRIME CONSULTANT / LANDSCAPE ARCHITECTURE:

.\XR-SALT-LOGO.jpg

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 www.dhuy.com

DRAWING PHASE:
**ISSUE FOR
 BIDDING**

SCALE:

SHEET TITLE:
**FIELD LIGHTING -
 COOPER AIMING
 DIAGRAM AND
 CALCULATION
 SUMMARY**

REV	DATE	DESCRIPTION

SCALE:
AS NOTED

DATE: **08/15/2022** DRAWN BY:
 CHECKED BY:

SHEET NUMBER:

EL-701

SALT DESIGN STUDIO FILE NO:
2003

